Refine Search

Search Results -

Terms	Documents
sentence\$2 and (construct\$4 or build\$4 or devis\$4 or contriv\$4) and user\$2 and quer\$4	2343

US Pre-Grant Publication Full-Text Database

US Patents Full-Text Database

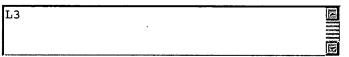
US OCR Full-Text Database

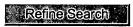
Database:

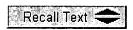
EPO Abstracts Database JPO Abstracts Database Derwent World Patents Index

IBM Technical Disclosure Bulletins

Search:











Search History

DATE: Wednesday, October 20, 2004 Printable Copy Create Case

Set Name side by side	Query	<u>Hit</u> Count	Set Name result set
DB=P	PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=NO; OP=OR		
<u>L3</u>	sentence\$2 and (construct\$4 or build\$4 or devis\$4 or contriv\$4) and user\$2 and quer\$4	2343	<u>L3</u>
<u>L2</u>	L1 and sentence\$2 and (construct\$4 or build\$4 or devis\$4 or contriv\$4) and user\$2 and quer\$4	31	<u>L2</u>
<u>L1</u>	706/59-62.ccls.	452	<u>L1</u>

END OF SEARCH HISTORY

Hit List

Clear Cenerate Collection Print Fwd Refs Blawd Refs
Cenerate OACS

Search Results - Record(s) 1 through 31 of 31 returned.

☐ 1. Document ID: US 20040010483 A1

Using default format because multiple data bases are involved.

L2: Entry 1 of 31

File: PGPB

Jan 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040010483

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040010483 A1

TITLE: Data integration and knowledge management solution

PUBLICATION-DATE: January 15, 2004

INVENTOR-INFORMATION:

NAME

CITY

STATE

RULE-47

Brands, Michael Rik Frans

Antwerpen

BE

COUNTRY

Van Hyfte, Dirk Medard Helena

Hamont

BE

US-CL-CURRENT: 706/45; 706/62

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw, De

☐ 2. Document ID: US 20020059157 A1

L2: Entry 2 of 31

File: PGPB

May 16, 2002

PGPUB-DOCUMENT-NUMBER: 20020059157

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020059157 A1

TITLE: Operating system using dynamic multi-dimensional trees

PUBLICATION-DATE: May 16, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE COUNTRY

RULE-47

Spooner, Christopher

Washington

DC

US

Spooner, Richard

Washington

DC

US

US-CL-CURRENT: 706/45; 706/62

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

Record List Display Page 2 of 14

☐ 3. Document ID: US 6772160 B2

L2: Entry 3 of 31

File: USPT

Aug 3, 2004

US-PAT-NO: 6772160

DOCUMENT-IDENTIFIER: US 6772160 B2

TITLE: Techniques for facilitating information acquisition and storage

DATE-ISSUED: August 3, 2004

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Cho; Raymond J. Sunnyvale CA Chen; Richard O. Mountain View CA Felciano; Ramon M. San Carlos CA Richards; Daniel R. Palo Alto CA Norman; Philippa Los Altos CA

US-CL-CURRENT: 707/10; 702/19, 702/82, 706/50, 706/61, 707/102, 707/3, 707/6, 709/203, 709/219

27777000000	Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K000C	Draw, De

☐ 4. Document ID: US 6581039 B2

L2: Entry 4 of 31

File: USPT

Jun 17, 2003

US-PAT-NO: 6581039

DOCUMENT-IDENTIFIER: US 6581039 B2

TITLE: Report searching in a merger and acquisition environment

DATE-ISSUED: June 17, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Marpe; James S. Westport CT Coyle; David W. Alpharetta GA Kiene; Bruce P. Mesa ΑZ Chestnut; Gregory P. Boothwyn PA Durocher; John F. Dedham MA Adler; Scott R. Boston ΜA Farner; Laura L. Mt. Lebanon PΔ Pepper; Robin New York NY Kim; Robert Chicago ΙL Yammine; Pascal R. Chicago IL Dangel; Colin K. . Brookline MA

Record List Display Page 3 of 14

US-CL-CURRENT: $\frac{705}{7}$; $\frac{345}{594}$, $\frac{345}{650}$, $\frac{345}{733}$, $\frac{345}{751}$, $\frac{345}{810}$, $\frac{345}{834}$, $\frac{705}{1}$, $\frac{705}{11}$, $\frac{706}{61}$, $\frac{707}{104 \cdot 1}$, $\frac{707}{3}$, $\frac{709}{200}$, $\frac{709}{253}$

Full Title Citation Front Review Classification Date Reference **Sequences Attachments** Claims KMC Draw. De

□ 5. Document ID: US 6549893 B1

L2: Entry 5 of 31

File: USPT

Apr 15, 2003

US-PAT-NO: 6549893

DOCUMENT-IDENTIFIER: US 6549893 B1

TITLE: System, method and article of manufacture for a goal based system utilizing

a time based model

DATE-ISSUED: April 15, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Lannert; Eric Jeffrey Chicago ILGobran; Timothy John Natick MA Smith; Karen Therese Chicago ILWillow; Michael James Wheeling ILConant; Jonathan Christian Worcester MA Murphy; Scott Michael Stratford CT

US-CL-CURRENT: 706/60; 705/7, 705/9

Full Title Citation Front Review Classification Date Reference **Sequences Attachinents** Claims KWIC Draw, Do

☐ 6. Document ID: US 6535861 B1

L2: Entry 6 of 31

File: USPT

Mar 18, 2003

US-PAT-NO: 6535861

DOCUMENT-IDENTIFIER: US 6535861 B1

TITLE: Goal based educational system with support for dynamic characteristics

tuning using a spread sheet object

DATE-ISSUED: March 18, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

O'Connor; Martha Torrey Verona NJ Rosenfeld; Eren Tolga New York NY

US-CL-CURRENT: $\underline{706}/\underline{11}$; $\underline{434}/\underline{107}$, $\underline{434}/\underline{322}$, $\underline{434}/\underline{327}$, $\underline{706}/\underline{45}$, $\underline{706}/\underline{46}$, $\underline{706}/\underline{47}$, $\underline{706}/\underline{60}$

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

☐ 7. Document ID: US 6532444 B1

L2: Entry 7 of 31

File: USPT

Mar 11, 2003

US-PAT-NO: 6532444

DOCUMENT-IDENTIFIER: US 6532444 B1

TITLE: Network interactive user interface using speech recognition and natural

language processing

DATE-ISSUED: March 11, 2003

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Weber; Dean

San Diego

CA

US-CL-CURRENT: $\underline{704}/\underline{257}$; $\underline{704}/\underline{270}$, $\underline{704}/\underline{7}$, $\underline{704}/\underline{9}$, $\underline{706}/\underline{49}$, $\underline{706}/\underline{55}$, $\underline{706}/\underline{62}$

Full Title Citation	Front Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw, De

□ 8. Document ID: US 6493690 B2

L2: Entry 8 of 31

File: USPT

Dec 10, 2002

US-PAT-NO: 6493690

DOCUMENT-IDENTIFIER: US 6493690 B2

TITLE: Goal based educational system with personalized coaching

DATE-ISSUED: December 10, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

CA

Bertrand; Benoit Patrick

Brossard

Zorba; Alexander

Middletown

Conant; Jonathan Christian

Worcester

MA

CT

US-CL-CURRENT: <u>706/45</u>; <u>706/25</u>, <u>706/60</u>

Full	Title Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw, De
	9. Docume	nt ID:	118 64	21655 D 1							
لسسا	J. Docum	mil.	03 04	21033 D 1							
L2: E	ntry 9 of 3	31			I	File: US	SPT		Jul	16,	2002

US-PAT-NO: 6421655

DOCUMENT-IDENTIFIER: US 6421655 B1

TITLE: Computer-based representations and reasoning methods for engaging users in

goal-oriented conversations

DATE-ISSUED: July 16, 2002

INVENTOR - INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Horvitz; Eric

Kirkland

WA

Paek; Timothy S.

Redmond

WA

US-CL-CURRENT: 706/61

Full Title Citation Front Review Classification Date Reference **Sequences Attactiments** Claims KWIC Draw De

□ 10. Document ID: US 6394263 B1

L2: Entry 10 of 31

File: USPT

May 28, 2002

US-PAT-NO: 6394263

DOCUMENT-IDENTIFIER: US 6394263 B1

TITLE: Autognomic decision making system and method

DATE-ISSUED: May 28, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

PΑ

ZIP CODE

COUNTRY

McCrory; Duane J.

Malvern

US-CL-CURRENT: 706/47; 704/1, 706/45, 706/59

Full Title Citation Front Review Classification Date Reference Sequences Attachinents Claims KMC Draw De

☐ 11. Document ID: US 6385600 B1

L2: Entry 11 of 31

File: USPT

May 7, 2002

US-PAT-NO: 6385600

DOCUMENT-IDENTIFIER: US 6385600 B1

TITLE: System and method for searching on a computer using an evidence set

DATE-ISSUED: May 7, 2002

INVENTOR - INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

McGuinness; Deborah L.

Summitt

NJ

Beattie; Thomas W.
Resnick; Lori Alperin

Metuchen Highland Park NJ NJ

US-CL-CURRENT: 707/3; 706/60, 707/10, 707/4, 709/218

Record List Display Page 6 of 14

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. D.

☐ 12. Document ID: US 6278987 B1

L2: Entry 12 of 31

File: USPT

Aug 21, 2001

US-PAT-NO: 6278987

DOCUMENT-IDENTIFIER: US 6278987 B1

** See image for Certificate of Correction **

TITLE: Data processing method for a semiotic decision making system used for responding to natural language queries and other purposes

DATE-ISSUED: August 21, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Reed; Frederick W. Honey Brook PA McCrory; Duane J. Malvern PA Parker; Charles Austin Exton PA Mazzagatti; Jane Campbell Blue Bell PA Waller; John C Plainfield CTZabilansky; Dana M. Lyme CT

US-CL-CURRENT: 706/45; 704/1, 706/59

Full Title Citation	Front Review	Classification	Date	Reference	Sequences	Altachments	Claims	KWIC	Draw, De
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☐ 13. Document ID: US 6275817 B1

L2: Entry 13 of 31

File: USPT

Aug 14, 2001

US-PAT-NO: 6275817

DOCUMENT-IDENTIFIER: US 6275817 B1

** See image for Certificate of Correction **

TITLE: Semiotic decision making system used for responding to natural language queries and other purposes and components therefor

DATE-ISSUED: August 14, 2001

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Reed; Frederick W. Honey Brook PA McCrory; Duane J. Malvern PA Waller; John C. Plainfield CT Parker; Charles Austin Exton PA Pendergraft; Eugene David late of Jasper AZ

Record List Display Page 7 of 14

US-CL-CURRENT: 706/45; 706/59

Full Title Citation Front Review Classification Date Reference **Sequences Attackments** Claims KMC Draw. De

☐ 14. Document ID: US 6233545 B1

L2: Entry 14 of 31

File: USPT

May 15, 2001

US-PAT-NO: 6233545

DOCUMENT-IDENTIFIER: US 6233545 B1

TITLE: Universal machine translator of arbitrary languages utilizing epistemic

moments

DATE-ISSUED: May 15, 2001

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Datig; William E.

Centerport

NY

11721

US-CL-CURRENT: 704/2; 704/9, 706/62

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMIC Draw. D.

☐ 15. Document ID: US 6125358 A

L2: Entry 15 of 31

File: USPT

Sep 26, 2000

US-PAT-NO: 6125358

DOCUMENT-IDENTIFIER: US 6125358 A

TITLE: System, method and article of manufacture for a simulation system for goal based education of a plurality of students

DATE-ISSUED: September 26, 2000

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Hubbell; John Reader

Evanston

 $_{
m IL}$

Nichols; Mark Stewart

Downers Grove

 $_{
m IL}$

US-CL-CURRENT: 706/11; 434/307R, 434/322, 706/46, 706/47, 706/60, 706/925

Full Title Citation Front Review Classification Date Reference Sequences Attachments. Claims KMC Draw. De

☐ 16. Document ID: US 6108640 A

L2: Entry 16 of 31

File: USPT

Aug 22, 2000

US-PAT-NO: 6108640

Record List Display Page 8 of 14

DOCUMENT-IDENTIFIER: US 6108640 A

TITLE: System for calculating occasion dates and converting between different calendar systems, and intelligent agent for using same

DATE-ISSUED: August 22, 2000

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Slotznick; Benjamin Mt. Gretna PA 17064

US-CL-CURRENT: 705/26; 704/9, 705/1, 705/27, 705/28, 705/39, 705/40, 706/11, 706/59, 708/112



☐ 17. Document ID: US 6064998 A

L2: Entry 17 of 31

File: USPT

May 16, 2000

US-PAT-NO: 6064998

DOCUMENT-IDENTIFIER: US 6064998 A

TITLE: System, method and article of manufacture for a simulation engine with an

expert system example processing engine

DATE-ISSUED: May 16, 2000

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Zabloudil; Maureen Therese Chicago IL Wills; Kerry Russell Manchester CT

US-CL-CURRENT: $\frac{706}{45}$; $\frac{434}{307R}$, $\frac{434}{322}$, $\frac{706}{46}$, $\frac{706}{47}$, $\frac{706}{60}$, $\frac{706}{925}$

Fall		Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw, De
······					•								
_	i 1	١Q	Docume	ent ID	· 110 6	019732 A							

18. Document 1D: US 6018/32 A

L2: Entry 18 of 31 File: USPT Jan 25, 2000

US-PAT-NO: 6018732

DOCUMENT-IDENTIFIER: US 6018732 A

TITLE: System, method and article of manufacture for a runtime program regression analysis tool for a simulation engine

DATE-ISSUED: January 25, 2000

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Bertrand; Benoit Patrick

Brossard

CA

Wills; Kerry Russell

Manchester

CT

US-CL-CURRENT: <u>706/60</u>; <u>434/307R</u>, <u>434/322</u>, <u>706/46</u>, <u>706/47</u>, <u>706/925</u>

Full Title Citation Front Review Classification Date Reference **Sequences Attachments** Claims KMIC Draw. De

☐ 19. Document ID: US 6009436 A

L2: Entry 19 of 31

File: USPT

Dec 28, 1999

US-PAT-NO: 6009436

DOCUMENT-IDENTIFIER: US 6009436 A

TITLE: Method and apparatus for mapping structured information to different

structured information

DATE-ISSUED: December 28, 1999

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Motoyama; Tetsuro

Cupertino

CA

COUNTRY

Fong; Avery

Hayward

CA

Bhatnagar; Anurag

Sunnyvale

CA

US-CL-CURRENT: 707/102; 706/59, 706/60, 707/100, 707/101, 707/4

Full Title Citation Front Review Classification Date Reference **Sequences Attachments** Claims KMC Draw. De

☐ 20. Document ID: US 5957520 A

L2: Entry 20 of 31

File: USPT

Sep 28, 1999

US-PAT-NO: 5957520

DOCUMENT-IDENTIFIER: US 5957520 A

** See image for Certificate of Correction **

TITLE: Information processing system for completing or resolving ambiguity of input

information and method therefor

DATE-ISSUED: September 28, 1999

INVENTOR-INFORMATION:

Jeyachandran; Suresh

NAME

CITY

STATE

ZIP CODE

COUNTRY

Suda; Aruna Rohra

Yokohama Yokohama JP JP

US-CL-CURRENT: 706/54; 706/61

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWIC Draw, D.

☐ 21. Document ID: US 5870755 A

L2: Entry 21 of 31

File: USPT

Feb 9, 1999

US-PAT-NO: 5870755

DOCUMENT-IDENTIFIER: US 5870755 A

TITLE: Method and apparatus for capturing and presenting digital data in a

synthetic interview

DATE-ISSUED: February 9, 1999

INVENTOR-INFORMATION:

NAME CITY

STATE ZIP CODE COUNTRY

Stevens; Scott M.

Pittsburgh

PA

Christel; Michael G.

Wexford

PA

US-CL-CURRENT: 707/104.1; 706/59

Full	Title	Citation	Front	Review	Classification	Date	Reference	र विविधानित्र	After mining.	Claims	KWIC	Draw, De	

	22.	Docum	ent ID	: US 5	842193 A								
L2: E	Entry	22 of	31				File: U	SPT		Nov	24,	1998	

US-PAT-NO: 5842193

DOCUMENT-IDENTIFIER: US 5842193 A

TITLE: Knowledge based planning and analysis (KbPA).TM.

DATE-ISSUED: November 24, 1998

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Reilly; John P.

Dallas

TX

US-CL-CURRENT: 706/45; 706/46, 706/59, 706/60

Full Title Citation Front Review Classification Date Reference Sevences Diameters Claims RAMC Draw Do

US-PAT-NO: 5822745

DOCUMENT-IDENTIFIER: US 5822745 A

TITLE: Expert system and method employing hierarchical knowledge base, and interactive multimedia/hypermedia applications

Record List Display Page 11 of 14

DATE-ISSUED: October 13, 1998

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Hekmatpour; Amir Burlington VT

US-CL-CURRENT: 706/59; 706/46, 706/60

Full Title Citation Front Review Classification Date Reference **Sequences Attachments** Claims KWIC Draw Do

☐ 24. Document ID: US 5806056 A

L2: Entry 24 of 31 File: USPT

Sep 8, 1998

US-PAT-NO: 5806056

DOCUMENT-IDENTIFIER: US 5806056 A

TITLE: Expert system and method employing hierarchical knowledge base, and

interactive multimedia/hypermedia applications

DATE-ISSUED: September 8, 1998

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Hekmatpour; Amir Burlington VT

US-CL-CURRENT: <u>706/50</u>; <u>706/45</u>, <u>706/46</u>, <u>706/61</u>

Full Title Citation Front Review Classification Date Reference **Sequences Attachments** Clarims KWIC Draw, Do

☐ 25. Document ID: US 5696885 A

L2: Entry 25 of 31 File: USPT Dec 9, 1997

US-PAT-NO: 5696885

DOCUMENT-IDENTIFIER: US 5696885 A

** See image for Certificate of Correction **

TITLE: Expert system and method employing hierarchical knowledge base, and interactive multimedia/hymermedia applications

interactive multimedia/hypermedia applications

DATE-ISSUED: December 9, 1997

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Hekmatpour; Amir Burlington VT

US-CL-CURRENT: 706/59; 706/12

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

☐ 26. Document ID: US 5644686 A

L2: Entry 26 of 31

File: USPT

Jul 1, 1997

US-PAT-NO: 5644686

DOCUMENT-IDENTIFIER: US 5644686 A

** See image for Certificate of Correction **

TITLE: Expert system and method employing hierarchical knowledge base, and

interactive multimedia/hypermedia applications

DATE-ISSUED: July 1, 1997

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Hekmatpour; Amir

Burlington

VT

US-CL-CURRENT: 706/45; 706/53, 706/61, 715/501.1

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims RMC Draw Do

☐ 27. Document ID: US 5297039 A

L2: Entry 27 of 31

File: USPT

Mar 22, 1994

US-PAT-NO: 5297039

DOCUMENT-IDENTIFIER: US 5297039 A

TITLE: Text search system for locating on the basis of keyword matching and keyword

relationship matching

DATE-ISSUED: March 22, 1994

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Kanaegami; Atsushi Kamakura JP
Koike; Kazuhiro Kamakura JP
Taki; Hirokazu Kamakura JP
Ohgashi; Hitoshi Kamakura JP

US-CL-CURRENT: 707/5; 704/10, 704/9, 706/55, 706/60, 706/62, 706/934

Full Title Citation Front Review Classification Date Reference <u>Sequences Attachments</u> Claims KMIC Draw. Do

☐ 28. Document ID: US 5276775 A

L2: Entry 28 of 31

File: USPT

Jan 4, 1994

US-PAT-NO: 5276775

Record List Display Page 13 of 14

DOCUMENT-IDENTIFIER: US 5276775 A

TITLE: System and method for building knowledge-based applications

DATE-ISSUED: January 4, 1994

INVENTOR - INFORMATION:

NAME

CITY

STATE

COUNTRY

Meng; Alex C.

Plano

TX

US-CL-CURRENT: 706/51; 706/47, 706/60

Full Title Citation Front Review Classification Date Reference **Sequences Attachments** Claims KWIC Draw. De

☐ 29. Document ID: US 5274801 A

L2: Entry 29 of 31

File: USPT

ZIP CODE

Dec 28, 1993

US-PAT-NO: 5274801

DOCUMENT-IDENTIFIER: US 5274801 A

** See image for Certificate of Correction **

TITLE: Artifical intelligence delivery system

DATE-ISSUED: December 28, 1993

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Gordon; O. Michael

Raleigh Chicago NC IL

Hubbell; John R.
Woodland; Norman J.

Raleigh

NC

US-CL-CURRENT: 707/3; 706/45, 706/50, 706/59

Full Title Citation Front Review Classification Date Reference **Sequences Attachments** Claims KMC Draw De

☐ 30. Document ID: US 4816994 A

L2: Entry 30 of 31

File: USPT

Mar 28, 1989

US-PAT-NO: 4816994

DOCUMENT-IDENTIFIER: US 4816994 A

TITLE: Rule acquisition for expert systems

DATE-ISSUED: March 28, 1989

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Freiling; Michael J.

Portland

OR

Alexander; James H.

Beaverton

OR

Phillips; Brian

Aloha

OR

Messick; Steven L.

Portland

OR

US-CL-CURRENT: <u>706/59</u>; <u>706/11</u>, <u>706/916</u>



☐ 31. Document ID: US 4670848 A

L2: Entry 31 of 31

File: USPT

Jun 2, 1987

US-PAT-NO: 4670848

DOCUMENT-IDENTIFIER: US 4670848 A

TITLE: Artificial intelligence system

DATE-ISSUED: June 2, 1987

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

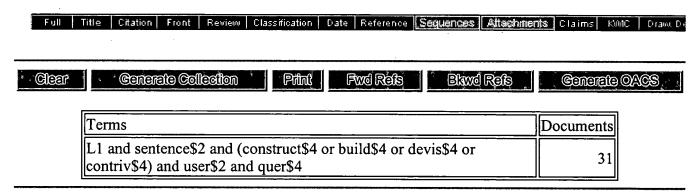
COUNTRY

Schramm; David A.

Tampa

FL

US-CL-CURRENT: 706/62; 706/11, 706/46, 706/902



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Refine Search

Search Results -

Terms	Documents
construct\$3 adj sentence\$2 and quer\$3	36

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Database:

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Search:

L9	 _		Refine Search
	 	 <u></u>	







Search History

DATE: Wednesday, October 20, 2004 Printable Copy Create Case

Set Name side by side	Query	<u>Hit</u> Count	<u>Set</u> <u>Name</u> result set
DB=P	PGPB, USPT, USOC, EPAB, JPAB, DWPI, TDBD; PLUR=NO; OP=OR		
<u>L9</u>	construct\$3 adj sentence\$2 and quer\$3	36	<u>L9</u>
<u>L8</u>	L1 and construct\$3 adj sentence\$2 and quer\$3	1	<u>L8</u>
<u>L7</u>	L1 and constructing adj sentences and queries	0	<u>L7</u>
<u>L6</u>	L5 and concept\$s	770	<u>L6</u>
<u>L5</u>	L3 and dynamic\$5	1389	<u>L5</u>
<u>L4</u>	L2 and dynamic\$5	21	<u>L4</u>
<u>L3</u>	sentence\$2 and (construct\$4 or build\$4 or devis\$4 or contriv\$4) and user\$2 and quer\$4	2343	<u>L3</u>
<u>L2</u>	L1 and sentence\$2 and (construct\$4 or build\$4 or devis\$4 or contriv\$4) and user\$2 and quer\$4	31	<u>L2</u>
<u>L1</u>	706/59-62.ccls.	452	<u>L1</u>

END OF SEARCH HISTORY

Hit List



Search Results - Record(s) 1 through 36 of 36 returned.

☐ 1. Document ID: US 20040205040 A1

Using default format because multiple data bases are involved.

L9: Entry 1 of 36

File: PGPB

Oct 14, 2004

PGPUB-DOCUMENT-NUMBER: 20040205040

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040205040 A1

TITLE: Experience-knowledge information processing apparatus

PUBLICATION-DATE: October 14, 2004

INVENTOR - INFORMATION:

NAME CITY STATE COUNTRY RULE-47 Yoshioka, Takeshi Kanagawa JΡ Yoshimura, Hiroki Kanagawa JΡ Masuichi, Hiroshi Kanagawa JP Ohkuma, Tomoko Kanagawa JΡ

US-CL-CURRENT: 706/50; 706/46

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K004C	Draw, De

☐ 2. Document ID: US 20040117352 A1

L9: Entry 2 of 36

File: PGPB

Jun 17, 2004

PGPUB-DOCUMENT-NUMBER: 20040117352

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040117352 A1

TITLE: System for answering natural language questions

PUBLICATION-DATE: June 17, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Schabes, Yves Newton MA US Roche, Emmanuel Belmont MA US

US-CL-CURRENT: 707/3

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. De

☐ 3. Document ID: US 20040101198 A1

L9: Entry 3 of 36

File: PGPB

May 27, 2004

PGPUB-DOCUMENT-NUMBER: 20040101198

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040101198 A1

TITLE: System and method for improving accuracy of signal interpretation

PUBLICATION-DATE: May 27, 2004

INVENTOR-INFORMATION:

NAME

CITY

STATE

RULE-47

Barbara, Justin Santa

London

GB

COUNTRY

US-CL-CURRENT: 382/181

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. De

☐ 4. Document ID: US 20040034633 A1

L9: Entry 4 of 36

File: PGPB

Feb 19, 2004

PGPUB-DOCUMENT-NUMBER: 20040034633

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040034633 A1

TITLE: Data search system and method using mutual subsethood measures

PUBLICATION-DATE: February 19, 2004

INVENTOR-INFORMATION:

NAME

CITY

STATE

RULE-47

Rickard, John Terrell

Durango

CO

US

COUNTRY

US-CL-CURRENT: 707/5

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. De

☐ 5. Document ID: US 20040024756 A1

L9: Entry 5 of 36

File: PGPB

Feb 5, 2004

PGPUB-DOCUMENT-NUMBER: 20040024756

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040024756 A1

Record List Display Page 3 of 17

TITLE: Search engine for non-textual data

PUBLICATION-DATE: February 5, 2004

INVENTOR-INFORMATION:

NAME

CITY

STATE COUNTRY

RULE-47

Rickard, John Terrell

Durango

CO

US

US-CL-CURRENT: 707/3

Full Title Citation Front	Review Classification Da	ate Reference	Sequences	Attachments	Claims	KMC	Draw, De
					A		
☐ 6. Document ID:	US 20040024755 A	1					
L9: Entry 6 of 36		File: PO	GPB		Feb	5. 2	2004

PGPUB-DOCUMENT-NUMBER: 20040024755

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040024755 A1

TITLE: System and method for indexing non-textual data

PUBLICATION-DATE: February 5, 2004

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Rickard, John Terrell

Durango

CO

US

US-CL-CURRENT: 707/3

Full	Title	Citation	Front	Review	Classification	Date	Referenc	e Sequences	Attachments	Claims	KMC	Drawt De
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ь9: E:	ntry	7 of 3	6				File:	PGPB		Feb	6,	2003

PGPUB-DOCUMENT-NUMBER: 20030028380

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030028380 A1

TITLE: Speech system

PUBLICATION-DATE: February 6, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Freeland, Warwick Peter Fitzroy AU
Dixon, Ian Edward Blackburn AU
Brien, Glenn Charles Beaconsfield AU

Record List Display Page 4 of 17

US-CL-CURRENT: 704/260

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. De

□ 8. Document ID: US 20020198697 A1

L9: Entry 8 of 36

File: PGPB

Dec 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020198697

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020198697 A1

TITLE: Universal epistemological machine (a.k.a. android)

PUBLICATION-DATE: December 26, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Datig, William E.

Centerport

NY

US

US-CL-CURRENT: 704/1; 706/12

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw, De

□ 9. Document ID: US 20020111941 A1

L9: Entry 9 of 36

File: PGPB

Aug 15, 2002

PGPUB-DOCUMENT-NUMBER: 20020111941

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020111941 A1

TITLE: Apparatus and method for information retrieval

PUBLICATION-DATE: August 15, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

COUNTRY

RULE-47

Roux, Claude

Grenoble

FR

Proux, Denys

Grenoble

FR

Gaussier, Eric

Eybens

FR

US-CL-CURRENT: <u>707/3</u>; <u>707/1</u>

☐ 10. Document ID: US 20020111791 A1

L9: Entry 10 of 36

File: PGPB

Aug 15, 2002

PGPUB-DOCUMENT-NUMBER: 20020111791

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020111791 A1

TITLE: Method and apparatus for communicating with people who speak a foreign

language

PUBLICATION-DATE: August 15, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Candelore, Brant L.

Escondido

CA

US

US-CL-CURRENT: 704/7

 Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOAC	Draw, De

☐ 11. Document ID: US 20020038206 A1

L9: Entry 11 of 36

File: PGPB

Mar 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020038206

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020038206 A1

TITLE: Modeling system

PUBLICATION-DATE: March 28, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Dori, Dov

Newton

MA

US

US-CL-CURRENT: 703/22

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw, De
					•							

☐ 12. Document ID: US 20020004736 A1

L9: Entry 12 of 36

File: PGPB

Jan 10, 2002

PGPUB-DOCUMENT-NUMBER: 20020004736

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020004736 A1

TITLE: Assembling personal information of a target person based upon third-party

PUBLICATION-DATE: January 10, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Roundtree, Brian C.

Kirkland

TAIL CO

Eisler, Craig G.

Redmond

WA WA US US

US-CL-CURRENT: 705/10

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. De

☐ 13. Document ID: US 20020002594 A1

L9: Entry 13 of 36

File: PGPB

Jan 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020002594

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020002594 A1

TITLE: Rendering data using rendering instructions based upon concept identifiers

for the data

PUBLICATION-DATE: January 3, 2002

INVENTOR - INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Roundtree, Brian

Kirkland

WA

US

Eisler, Craig G.

Redmond

WA

US

US-CL-CURRENT: <u>709/217</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw, De

☐ 14. Document ID: US 20020002575 A1

L9: Entry 14 of 36

File: PGPB

Jan 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020002575

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020002575 A1

TITLE: Hypertext concept notation for dynamically constructing a sentence to

respond to a user request

PUBLICATION-DATE: January 3, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

RULE-47

Eisler, Craig G.

Redmond

WA

US

COUNTRY

Roundtree, Brian C.

Kirkland

WA

US

US-CL-CURRENT: 718/1; 707/10

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw De

☐ 15. Document ID: US 20020002548 A1

L9: Entry 15 of 36

File: PGPB

Jan 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020002548

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020002548 A1

TITLE: Airline flight departure and arrival prediction based upon historical and

real-time data

PUBLICATION-DATE: January 3, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Roundtree, Brian

Kirkland

WA

US

US-CL-CURRENT: 707/1; 705/1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawt De
 				************	·········							

☐ 16. Document ID: US 20010049277 A1

L9: Entry 16 of 36

File: PGPB

Dec 6, 2001

PGPUB-DOCUMENT-NUMBER: 20010049277

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010049277 A1

TITLE: Secondary data encoded along with original data for generating responses to requests from wireless devices

PUBLICATION-DATE: December 6, 2001

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Meyer, Shane D.

Redmond

WA

US

Eisler, Craig G. Roundtree, Brian C. Redmond Kirkland WA WA US US

US-CL-CURRENT: 455/414.3; 455/517

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. De

☐ 17. Document ID: US 20010049275 A1

L9: Entry 17 of 36

File: PGPB

Dec 6, 2001

PGPUB-DOCUMENT-NUMBER: 20010049275

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010049275 A1

TITLE: Automated alert state change of user devices for time-based and location-

based events

PUBLICATION-DATE: December 6, 2001

INVENTOR-INFORMATION:

NAME

CITY

STATE COUNTRY

RULE-47

Pierry, Cristiano L. S.

Redmond

WA

US

Roundtree, Brian

Kirkland

WA

US

US-CL-CURRENT: <u>455/414.1</u>; <u>455/567</u>

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw, De

☐ 18. Document ID: US 20010047264 A1

L9: Entry 18 of 36

File: PGPB

Nov 29, 2001

PGPUB-DOCUMENT-NUMBER: 20010047264

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010047264 A1

TITLE: Automated reservation and appointment system using interactive voice

recognition

PUBLICATION-DATE: November 29, 2001

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Roundtree, Brian

Kirkland

WA

US

US-CL-CURRENT: 704/275

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

☐ 19. Document ID: US 6678677 B2

L9: Entry 19 of 36

File: USPT

Jan 13, 2004

US-PAT-NO: 6678677

DOCUMENT-IDENTIFIER: US 6678677 B2

TITLE: Apparatus and method for information retrieval using self-appending semantic lattice

-400100

DATE-ISSUED: January 13, 2004

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Roux; Claude

Grenoble

FR

Proux; Denys Gaussier; Eric Grenoble Eybens

FR FR

US-CL-CURRENT: 707/3

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. D.

☐ 20. Document ID: US 6556983 B1

L9: Entry 20 of 36

File: USPT

Apr 29, 2003

US-PAT-NO: 6556983

DOCUMENT-IDENTIFIER: US 6556983 B1

** See image for Certificate of Correction **

TITLE: Methods and apparatus for finding semantic information, such as usage logs, similar to a query using a pattern lattice data space

DATE-ISSUED: April 29, 2003

INVENTOR - INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Altschuler; Steven

Redmond

WA

Ingerman; David V.

Princeton Redmond

NJ WA

Wu; Lani Zhao; Lei

Bellevue

WA

US-CL-CURRENT: <u>706/55</u>; <u>706/11</u>, <u>706/20</u>, <u>706/21</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims Kill Draw, De

☐ 21. Document ID: US 6356864 B1

L9: Entry 21 of 36

File: USPT

Mar 12, 2002

US-PAT-NO: 6356864

DOCUMENT-IDENTIFIER: US 6356864 B1

TITLE: Methods for analysis and evaluation of the semantic content of a writing

based on vector length

DATE-ISSUED: March 12, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE COUNTRY

Foltz; Peter William

Las Cruces

NM

Landauer; Thomas K.

Boulder

CO

Laham, II; Robert Darrell

Rehder: Robert Ernest

Boulder

CO

Kintsch; Walter

Boulder Boulder CO

US-CL-CURRENT: 704/1; 434/353, 704/9

Full Title Citation Front Review Classification Date Reference **Sequences Attachments** Claims KiMC Draw De

☐ 22. Document ID: US 6341372 B1

L9: Entry 22 of 36

File: USPT

Jan 22, 2002

US-PAT-NO: 6341372

DOCUMENT-IDENTIFIER: US 6341372 B1

TITLE: Universal machine translator of arbitrary languages

DATE-ISSUED: January 22, 2002

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Datig; William E.

Centerport

NY

11721

US-CL-CURRENT: 717/136; 715/523

Full Title Citation Front Review Classification Date Reference **Sequences Attachinents** Claims KMC Draw De

☐ 23. Document ID: US 6305942 B1

L9: Entry 23 of 36

File: USPT

Oct 23, 2001

US-PAT-NO: 6305942

DOCUMENT-IDENTIFIER: US 6305942 B1

TITLE: Method and apparatus for increased language fluency through interactive

comprehension, recognition and generation of sounds, words and sentences

DATE-ISSUED: October 23, 2001

INVENTOR-INFORMATION:

NAME CITY

ZIP CODE

COUNTRY

Block; Robert S. Loye; Robert D.

Marina Del Rey Tujunga

CA CA

STATE

Swan; Margot

Tujunga

CA

US-CL-CURRENT: $\underline{434}/\underline{156}$; $\underline{434}/\underline{157}$, $\underline{434}/\underline{167}$, $\underline{434}/\underline{169}$, $\underline{434}/\underline{170}$, $\underline{434}/\underline{178}$, $\underline{434}/\underline{185}$

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMIC Draw, De

☐ 24. Document ID: US 6233545 B1

L9: Entry 24 of 36

File: USPT

May 15, 2001

US-PAT-NO: 6233545

DOCUMENT-IDENTIFIER: US 6233545 B1

TITLE: Universal machine translator of arbitrary languages utilizing epistemic

moments

DATE-ISSUED: May 15, 2001

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Datig; William E.

Centerport

NY

11721

US-CL-CURRENT: 704/2; 704/9, 706/62

Full Title Citation Front Review Classification Date Reference **Sequences Attachments** Claims KMIC Draw, De

☐ 25. Document ID: US 6219665 B1

L9: Entry 25 of 36

File: USPT

Apr 17, 2001

US-PAT-NO: 6219665

DOCUMENT-IDENTIFIER: US 6219665 B1

TITLE: Retrieval menu creation device, a retrieval menu creation method, and a recording medium that stores a retrieval menu creation program

DATE-ISSUED: April 17, 2001

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Shiomi; Takakazu

Hirakata

JP

US-CL-CURRENT: 707/6; 707/1, 707/100

Full Title Citation Front Review Classification Date Reference **Sequences Attachments** Claims KMIC Draw. D.

☐ 26. Document ID: US 5983221 A

L9: Entry 26 of 36

File: USPT

Nov 9, 1999

US-PAT-NO: 5983221

DOCUMENT-IDENTIFIER: US 5983221 A

TITLE: Method and apparatus for improved document searching

DATE-ISSUED: November 9, 1999

Record List Display Page 12 of 17

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Christy; Sam

North Cambridge

MA

US-CL-CURRENT: <u>707/5</u>; <u>707/3</u>

900.3000	Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KOMO	Drawi, De
		27	Dagum	omt ID	. TIC 5	0 <i>554</i> 02 A							

☐ 27. Document ID: US 5855483 A

L9: Entry 27 of 36

File: USPT

Jan 5, 1999

US-PAT-NO: 5855483

DOCUMENT-IDENTIFIER: US 5855483 A

TITLE: Interactive play with a computer

DATE-ISSUED: January 5, 1999

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Collins; Roger Novato CA Robinson; Tony Palo Alto CA Jenkins; Yolanda Oakland CA DiGrazia; Karla Burlingame CA Ozer; Stuart San Francisco CA Freedman; Bryan San Francisco CA Voce; Maurice San Carlos CA Devon; Jane Daly City CA Briggs; Chris Santa Cruz CA

US-CL-CURRENT: <u>434/322</u>; <u>434/307R</u>

Full Title	Citation Fi	ront	Review	Classification	Date	Reference	Sequences	Affachments	Claims	KMC	Drawi, De
		·····									
□ 28.	Documen	t ID:	US 5	805832 A		-					

US-PAT-NO: 5805832

DOCUMENT-IDENTIFIER: US 5805832 A

TITLE: System for parametric text to text language translation

DATE-ISSUED: September 8, 1998

INVENTOR-INFORMATION:

NAME CITY

STATE ZIP CODE COUNTRY

Brown; Peter Fitzhugh

New York

NY

Cocke; John Bedford NY Della Pietra; Stephen Andrew Pearl River NY Della Pietra; Vincent Joseph Blauvelt NY Jelinek; Frederick Briarcliff Manor NY Lai; Jennifer Ceil Garrison NY Mercer; Robert Leroy Yorktown Heights NY

US-CL-CURRENT: 711/1; 704/1, 704/2, 704/9

Full Title Citation Front Review Classification Date Reference Sequences Altachments Claims KMC Draw De

☐ 29. Document ID: US 5768603 A

L9: Entry 29 of 36

File: USPT

Jun 16, 1998

US-PAT-NO: 5768603

DOCUMENT-IDENTIFIER: US 5768603 A

TITLE: Method and system for natural language translation

DATE-ISSUED: June 16, 1998

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Brown; Peter Fitzhugh New York NY Cocke; John Bedford NY Della Pietra; Stephen Andrew Pearl River NY Della Pietra; Vincent Joseph Blauvelt NY Jelinek; Frederick Briarcliff Manor NY Lai; Jennifer Ceil Garrison NY Mercer; Robert Leroy Yorktown Heights NY

US-CL-CURRENT: <u>704/9</u>; <u>704/232</u>, <u>704/239</u>, <u>704/256</u>, <u>704/277</u>, <u>704/7</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims RMC Draw De

L9: Entry 30 of 36

File: USPT

Dec 19, 1995

US-PAT-NO: 5477451

DOCUMENT-IDENTIFIER: US 5477451 A

** See image for Certificate of Correction **

TITLE: Method and system for natural language translation

DATE-ISSUED: December 19, 1995

INVENTOR-INFORMATION:

Record List Display Page 14 of 17

NAME CITY STATE ZIP CODE COUNTRY

Brown; Peter F. New York NY Cocke; John Bedford NY Della Pietra; Stephen A. Pearl River NY Della Pietra; Vincent J. Blauvelt NY Jelinek; Frederick Briarcliff Manor NY Lai; Jennifer C. Garrison NY Mercer; Robert L. Yorktown Heights NY

US-CL-CURRENT: 704/9; 704/2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw, De
												_
									·			

☐ 31. Document ID: US 5247433 A

L9: Entry 31 of 36 File: USPT Sep 21, 1993

US-PAT-NO: 5247433

DOCUMENT-IDENTIFIER: US 5247433 A

TITLE: Man-machine system

DATE-ISSUED: September 21, 1993

INVENTOR-INFORMATION:

CITY NAME STATE ZIP CODE COUNTRY

Kitaura; Wataru Yokohama JΡ Ujita; Hiroshi Mito JΡ Fukuda; Mitsuko Hitachi JΡ

US-CL-CURRENT: 700/83; 345/700, 345/978, 376/216, 376/259

Fu	11	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Drawt De
									<u></u>			ν····································	
		32.	Docum	ent ID	: US 5	113481 A							

L9: Entry 32 of 36

File: USPT May 12, 1992

US-PAT-NO: 5113481

DOCUMENT-IDENTIFIER: US 5113481 A

** See image for Certificate of Correction **

TITLE: Augmentive communications system and method

DATE-ISSUED: May 12, 1992

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Smallwood; John M. Northville ΜI Custer; William A.

Northville

ΜI

US-CL-CURRENT: 704/271

Full Title Citation Front Review Classification Date Reference **Sequences Attachments** Claims KMC Draw De

☐ 33. Document ID: US 5083268 A

L9: Entry 33 of 36

File: USPT

Jan 21, 1992

US-PAT-NO: 5083268

DOCUMENT-IDENTIFIER: US 5083268 A

TITLE: System and method for parsing natural language by unifying lexical features

of words

DATE-ISSUED: January 21, 1992

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Hemphill; Charles T.

Coppell

TX

Vlach; Frank

Plano

TX

US-CL-CURRENT: 706/11; 704/9, 706/902

Full Title Citation Front Review Classification Date Reference Sequences Attachinents. Claims KMC Draw. De

☐ 34. Document ID: US 5047953 A

L9: Entry 34 of 36

File: USPT

Sep 10, 1991

US-PAT-NO: 5047953

DOCUMENT-IDENTIFIER: US 5047953 A

** See image for Certificate of Correction **

TITLE: Augmentive communications system and method

DATE-ISSUED: September 10, 1991

INVENTOR-INFORMATION:

NAME

CITY

STATE ZIP CODE

COUNTRY

Smallwood; John M.

Northville

ΜI

Custer; William A.

Northville

MΙ

US-CL-CURRENT: 704/271; 704/267

Full Title Citation Front Review Classification Date Reference **Sequences Attachments** Claims KMIC Draw. De

☐ 35. Document ID: US 4829423 A

L9: Entry 35 of 36

File: USPT

May 9, 1989

US-PAT-NO: 4829423

DOCUMENT-IDENTIFIER: US 4829423 A

TITLE: Menu-based natural language understanding system

DATE-ISSUED: May 9, 1989

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Tennant; Harry R.

Garland Bedford

TX

Ross; Kenneth M. Saenz; Richard M.

Dallas

ΤX

TX

US-CL-CURRENT: 704/8; 700/83

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw, De

	36.	Docum	ent ID	: US 4	688195 A							

L9: Entry 36 of 36

File: USPT

Aug 18, 1987

US-PAT-NO: 4688195

DOCUMENT-IDENTIFIER: US 4688195 A

TITLE: Natural-language interface generating system

DATE-ISSUED: August 18, 1987

INVENTOR-INFORMATION:

NAME

CITY

STATE

ZIP CODE

COUNTRY

Thompson; Craig W.

Plano

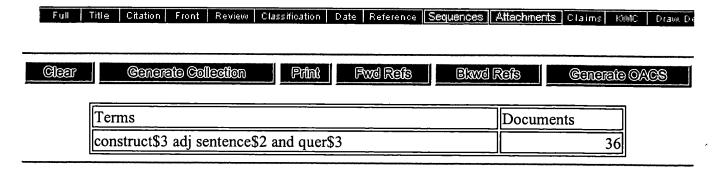
TX

Ross; Kenneth M.

Bedford

TX

US-CL-CURRENT: 706/11



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Search Results -

Terms	Documents		
construct\$3 adj sentenc\$2 same quer\$4	4		

US Pre-Grant Publication Full-Text Database

US Patents Full-Text Database

US OCR Full-Text Database

Database:

EPO Abstracts Database JPO Abstracts Database Derwent World Patents Index

IBM Technical Disclosure Bulletins

Search:

selected near related adj queries

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Search History

DATE: Wednesday, October 20, 2004 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB=PGPB	P, USPT, USOC, EPAB, JPAB, DWPI, TDBD; PLUR = 0	NO; OP = OR	
<u>L5</u>	construct\$3 adj sentenc\$2 same quer\$4	4	<u>L5</u>
<u>L4</u>	construct\$3 adj sentenc\$2 near quer\$4	0	<u>L4</u>
<u>L3</u>	construct\$3 adj sentenc\$2	200	<u>L3</u>
<u>L2</u>	09/783,611	1	<u>L2</u>
<u>L1</u>	construct\$3 adj sentenc\$2 and quer\$3	36	<u>L1</u>

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 4 of 4 returned.

☐ 1. Document ID: US 20040117352 A1

Using default format because multiple data bases are involved.

L5: Entry 1 of 4

File: PGPB

Jun 17, 2004

PGPUB-DOCUMENT-NUMBER: 20040117352

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040117352 A1

TITLE: System for answering natural language questions

PUBLICATION-DATE: June 17, 2004

INVENTOR-INFORMATION:

NAME

CITY

STATE

COUNTRY

RULE-47

Schabes, Yves

Newton

MA

US

Roche, Emmanuel

Belmont

MA

US

US-CL-CURRENT: 707/3

Fu	II.	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWAC	Draw, De

☐ 2. Document ID: US 20020002575 A1

L5: Entry 2 of 4

File: PGPB

Jan 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020002575

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020002575 A1

TITLE: Hypertext concept notation for dynamically constructing a sentence to

respond to a user request

PUBLICATION-DATE: January 3, 2002

INVENTOR-INFORMATION:

NAME

Roundtree, Brian C.

CITY

STATE

COUNTRY

RULE-47

Eisler, Craig G.

Redmond Kirkland WA WA US US

US-CL-CURRENT: <u>718/1</u>; <u>707/10</u>

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw. D.

☐ 3. Document ID: US 20020002548 A1

L5: Entry 3 of 4

File: PGPB

Jan 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020002548

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020002548 A1

TITLE: Airline flight departure and arrival prediction based upon historical and

real-time data

PUBLICATION-DATE: January 3, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Roundtree, Brian · Kirkland WA US

US-CL-CURRENT: 707/1; 705/1



☐ 4. Document ID: US 20010047264 A1

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File: PGPB

Nov 29, 2001

PGPUB-DOCUMENT-NUMBER: 20010047264

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010047264 A1

TITLE: Automated reservation and appointment system using interactive voice

recognition

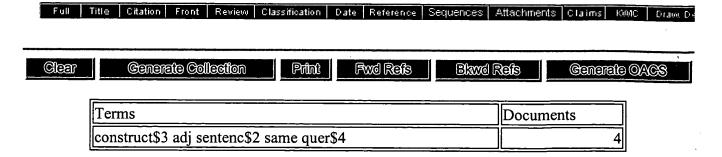
PUBLICATION-DATE: November 29, 2001

INVENTOR-INFORMATION:

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Roundtree, Brian Kirkland WA US

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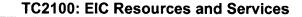
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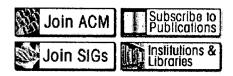
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We outline a model of generation with revision, focusing on improving textual coherence. We argue that high quality text is more easily produced by iteratively revising and regenerating, as people do, rather than by using an architecturally more complex single pass generator. As a general area of study, the revision process presents interesting problems: Recognition of flaws in text requires a descriptive theory of what constitutes well written prose and a parser which can build a representation in those terms. Improving text requires associating flaws with strategies for improvement. The strategies, in turn, need to know what adjustments to the decisions made during the initial generation will produce appropriate modifications to the text. We compare our treatment of revision with those of Mann and Moore (1981), Gabriel (1984), and Mann (1983).

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Dynamic resource brokering for multi-user query execution

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↑ ABSTRACT

We propose a new framework for resource allocation based on concepts from microeconomics. Specifically, we address the difficult problem of managing resources in a multiple-query environment composed of queries with widely varying resource requirements. The central element of the framework is a resource broker that realizes a profit by "selling" resources to competing operators using a performance-based "currency." The guiding principle for brokering resources is profit maximization. In other words, since the currency is derived from the performance objective, the broker can achieve the best performance by making the scheduling and resource allocation decisions that maximize profit. Moreover, the broker employs dynamic techniques and adapts by changing previous allocation decisions while queries are executing. In a first validation study of the framework. we developed a prototype broker that manages memory and disk bandwidth for a multi-user query workload. The performance objective for the prototype broker is to minimize slowdown with the constraint of fairness. Slowdown measures how much higher the response time is in a multi-user environment than a single-user environment, and fairness measures how even is the degradation in response time among all queries as the system load increases, Our simulation results show the viability of the broker framework and the effectiveness of our query admission and resource allocation policies for multi-user workloads.

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Primary Classification:

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+.2 DATABASE MANAGEMENT

H.2.4 Systems

Subjects: Query processing

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H. Information Systems

+ H.2 DATABASE MANAGEMENT

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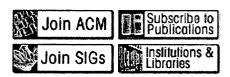
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Dynamic resource brokering for multi-user query execution Diane L. Davison, Goetz Graefe

window

May 1995 ACM SIGMOD Record, Proceedings of the 1995 ACM SIGMOD international conference on Management of data, Volume 24 Issue 2

Full text available: pdf(1.57 MB)

Additional Information: full citation, abstract, references, citings, index terms

We propose a new framework for resource allocation based on concepts from microeconomics. Specifically, we address the difficult problem of managing resources in a multiple-query environment composed of queries with widely varying resource requirements. The central element of the framework is a resource broker that realizes a profit by "selling" resources to competing operators using a performance-based "currency." The guiding principle for brokering resources is profit maximization. In other wo ...

Spoken dialogue technology: enabling the conversational user interface March 2002 ACM Computing Surveys (CSUR), Volume 34 Issue 1

Full text available: pdf(987.69 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

Spoken dialogue systems allow users to interact with computer-based applications such as databases and expert systems by using natural spoken language. The origins of spoken dialogue systems can be traced back to Artificial Intelligence research in the 1950s concerned with developing conversational interfaces. However, it is only within the last decade or so, with major advances in speech technology, that large-scale working systems have been developed and, in some cases, introduced into commerc ...

Keywords: Dialogue management, human computer interaction, language generation, language understanding, speech recognition, speech synthesis

3 VAGUE: a user interface to relational databases that permits vague queries Amihai Motro

July 1988 ACM Transactions on Information Systems (TOIS), Volume 6 Issue 3

Full text available: pdf(2.16 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

A specific query establishes a rigid qualification and is concerned only with data that match it precisely. A vague query establishes a target qualification and is concerned also with data that are close to this target. Most conventional database systems cannot handle vague queries directly, forcing their users to retry specific queries repeatedly with minor modifications until they match data that are satisfactory. This article describes a system called VAGUE that can handle vague gueries ...

Analysis of navigation behaviour in web sites integrating multiple information systems Bettina Berendt, Myra Spiliopoulou



March 2000 The VLDB Journal — The International Journal on Very Large Data Bases. Volume 9 Issue 1

Full text available: pdf(281.14 KB) Additional Information: full citation, abstract, index terms

The analysis of web usage has mostly focused on sites composed of conventional static pages. However, huge amounts of information available in the web come from databases or other data collections and are presented to the users in the form of dynamically generated pages. The query interfaces of such sites allow the specification of many search criteria. Their generated results support navigation to pages of results combining cross-linked data from many sources. For the analysis of visitor naviga ...

Keywords: Conceptual hierarchies, Data mining, Query capabilities, Web databases, Web query interfaces, Web usage mining

5 Advanced data processing in KRISYS: modeling concepts, implementation techniques, and client/server issues



Stefan Deßloch, Theo Härder, Nelson Mattos, Bernhard Mitschang, Joachim Thomas May 1998 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 7 Issue 2

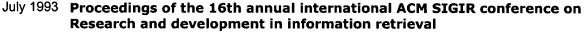
Full text available: pdf(210.27 KB) Additional Information: full citation, abstract, index terms

The increasing power of modern computers is steadily opening up new application domains for advanced data processing such as engineering and knowledge-based applications. To meet their requirements, concepts for advanced data management have been investigated during the last decade, especially in the field of object orientation. Over the last couple of years, the database group at the University of Kaiserslautern has been developing such an advanced database system, the KRISYS prototype. In this ...

Keywords: Client/server architectures, Consistency control, Object-oriented modeling concepts, Query processing, Run-time optimization

6 Concept based query expansion

Yonggang Qiu, Hans-Peter Frei



Full text available: pdf(1.05 MB)

Additional Information: full citation, abstract, references, citings, index terms

Query expansion methods have been studied for a long time - with debatable success in many instances. In this paper we present a probabilistic query expansion model based on a similarity thesaurus which was constructed automatically. A similarity thesaurus reflects domain knowledge about the particular collection from which it is constructed. We address the two important issues with query expansion: the selection and the weighting of additional search terms. In contrast to earlier methods, ...

7 A layered architecture for querying dynamic Web content Hasan Davulcu, Juliana Freire, Michael Kifer, I. V. Ramakrishnan June 1999 ACM SIGMOD Record, Proceedings of the 1999 ACM SIGMOD international



conference on Management of data, Volume 28 Issue 2

Full text available: pdf(1.56 MB)

Additional Information: full citation, abstract, references, citings, index terms

The design of webbases, database systems for supporting Web-based applications, is currently an active area of research. In this paper, we propose a 3-year architecture for designing and implementing webbases for querying dynamic Web content(i.e., data that can only be extracted by filling out multiple forms). The lowest layer, virtual physical layer, provides navigation independence by shielding the user from the complexities associated wi ...

8 Query result processing: A hierarchical monothetic document clustering algorithm for summarization and browsing search results



Krishna Kummamuru, Rohit Lotlikar, Shourya Roy, Karan Singal, Raghu Krishnapuram May 2004 Proceedings of the 13th international conference on World Wide Web

Full text available: pdf(446.94 KB) Additional Information: full citation, abstract, references, index terms

Organizing Web search results into a hierarchy of topics and sub-topics facilitates browsing the collection and locating results of interest. In this paper, we propose a new hierarchical monothetic clustering algorithm to build a topic hierarchy for a collection of search results retrieved in response to a query. At every level of the hierarchy, the new algorithm progressively identifies topics in a way that maximizes the coverage while maintaining distinctiveness of the topics. We refer the pro ...

Keywords: automatic taxonomy generation, clustering, data mining, search, summarization

SemQL: a semantic guery language for multidatabase systems



Jeong-Oog Lee, Doo-Kwon Baik

November 1999 Proceedings of the eighth international conference on Information and knowledge management

Full text available: pdf(950.76 KB) Additional Information: full citation, abstract, references, index terms

An essential prerequisite to achieving interoperability in multidatabase systems is to be able to identify semantically equivalent or related data items in component databases. Another problem in multidatabase systems is allowing users to handle information from different databases that refer to the same realworld entity. In this paper, we provide semantic networks so that multidatabase systems can detect and resolve semantic heterogeneities among component databases. And we provide a seman ...

Keywords: multidatabase, semantic network, semantic query language, wordnet

¹⁰ Special issue on persistent object systems: Orthogonally persistent object systems Malcolm Atkinson, Ronald Morrison



July 1995 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 4 Issue 3

Full text available: pdf(5.02 MB)

Additional Information: full citation, abstract, references, citings

Persistent Application Systems (PASs) are of increasing social and economic importance. They have the potential to be long-lived, concurrently accessed, and consist of large bodies of data and programs. Typical examples of PASs are CAD/CAM systems, office automation, CASE tools, software engineering environments, and patient-care support systems in hospitals. Orthogonally persistent object systems are intended to provide improved support for the design, construction, maintenance, and operation o ...

Keywords: database programming languages, orthogonal persistence, persistent application systems, persistent programming languages

11 Context-sensitive, graphic presentation of information

Mark Friedell, Jane Barnett, David Kramlich

July 1982 ACM SIGGRAPH Computer Graphics, Proceedings of the 9th annual conference on Computer graphics and interactive techniques, Volume 16 Issue 3

Full text available: pdf(849.33 KB)

Additional Information: full citation, abstract, references, citings, index

We begin by reviewing spatial data management—the technique of accessing and organizing information via its graphical representation in an organized spatial framework. We describe an operational prototype system that exceeds the capabilities of other spatial data management systems in two ways: (1) the graphical presentation of data is tailored to the user's identity, task, and database query; and (2) the system has the capacity for large databases. These capabilities are p ...

12 Design management using dynamically defined flows

Peter R. Sutton, Jay B. Brockman, Stephen W. Director

July 1993 Proceedings of the 30th international conference on Design automation

Full text available: pdf(734.93 KB) Additional Information: full citation, references, citings, index terms

13 On type systems for object-oriented database programming languages

Yuri Leontiev, M. Tamer Özsu, Duane Szafron

December 2002 ACM Computing Surveys (CSUR), Volume 34 Issue 4

Full text available: Ddf(346.87 KB) Additional Information: full citation, abstract, references, index terms

The concept of an object-oriented database programming language (OODBPL) is appealing because it has the potential of combining the advantages of object orientation and database programming to yield a powerful and universal programming language design. A uniform and consistent combination of object orientation and database programming, however, is not straightforward. Since one of the main components of an object-oriented programming language is its type system, one of the first problems that ar ...

Keywords: OODB, OODBPL, object-oriented database programming language, type checking, typing

14 Concept indexing

Angi Voss, Keiichi Nakata, Marcus Juhnke

November 1999 Proceedings of the international ACM SIGGROUP conference on Supporting group work

Full text available: pdf(1.43 MB)

Additional Information: full citation, abstract, references, citings, index terms

Marking text in a document is a convenient way of identifying bits of knowledge that are relevant for the reader, a colleague or a larger group. Based on such markings, networks of concepts with hyperlinks to their occurrences in a collection of documents can be developed. On the Internet, marked documents can easily be shared, concepts can be constructed collaboratively and the concept-document network can be used for navigation and direct access. Text marking, grounded concepts and the In ...

Keywords: collaboration, concepts, documents, knowledge management, software agents, text marking

15	SEAVE: a	mechanism	for verifying	user presi	uppositions	in query sys	tems
	Amihai Mot			•			

December 1986 ACM Transactions on Information Systems (TOIS), Volume 4 Issue 4

Full text available: pdf(1.49 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Every information system incorporates a database component, and a frequent activity of users of information systems is to present it with queries. These queries reflect the presuppositions of their authors about the system and the information it contains. With most query processors, queries that are based on erroneous presuppositions often result in null answers. These fake nulls are misleading, since they do not point out the user's erroneous presuppositions (and can even be interpreted as ...

16 Sequence similarity search and access methods: On the efficient evaluation of relaxed queries in biological databases



Yangjun Chen, Duren Che, Karl Aberer

November 2002 Proceedings of the eleventh international conference on Information and knowledge management

Full text available: pdf(312.61 KB) Additional Information: full citation, abstract, references, index terms

In this paper, a new technique is developed to support the query relaxation in biological databases. Query relaxation is required due to the fact that queries tend not to be expressed exactly by the users, especially in scientific databases such as biological databases, in which complex domain knowledge is heavily involved. To treat this problem, we propose the concept of the so-called fuzzy equivalence classes to capture important kinds of domain knowledge that is used to relax gueries. This co ...

Keywords: automaton, biological databases, position trees, query optimization, query relaxation

17 Query evaluation techniques for large databases

Goetz Graefe

June 1993 ACM Computing Surveys (CSUR), Volume 25 Issue 2

Full text available: pdf(9.37 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query-processi ...

Keywords: complex query evaluation plans, dynamic query evaluation plans, extensible database systems, iterators, object-oriented database systems, operator model of parallelization, parallel algorithms, relational database systems, set-matching algorithms, sort-hash duality

18 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research

Full text available: pdf(4.21 MB)

Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

19 Parallelism in processing queries on complex objects

T. Harder, H. Schoning, A. Sikeler

January 2000 Proceedings of the first international symposium on Databases in parallel and distributed systems

Full text available: pdf(1.60 MB)

Additional Information: full citation, abstract, references, citings, index terms

Complex objects to support non-standard database applications require the use of substantial computing resources because their powerful operations and their related integrity constraints must be performed and maintained in an interactive environment. Since the exploitation of parallelism within such operations seems to be promising, we investigate the principal approaches for processing a query on complex objects (molecules) in parallel. A number of arguments favor methods based on inter-mo ...

20 Lexical navigation: visually prompted query expansion and refinement



James W. Cooper, Roy J. Byrd

July 1997 Proceedings of the second ACM international conference on Digital libraries

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21 The state of the art in distributed query processing

Donald Kossmann

December 2000 ACM Computing Surveys (CSUR), Volume 32 Issue 4

Full text available: pdf(455.39 KB)

Additional Information: full citation, abstract, references, citings, index terms

Distributed data processing is becoming a reality. Businesses want to do it for many reasons, and they often must do it in order to stay competitive. While much of the infrastructure for distributed data processing is already there (e.g., modern network technology), a number of issues make distributed data processing still a complex undertaking: (1) distributed systems can become very large, involving thousands of heterogeneous sites including PCs and mainframe server machines; (2) the stat ...

Keywords: caching, client-server databases, database application systems, dissemination. based information systems, economic models for query processing, middleware, multitier architectures, query execution, query optimization, replication, wrappers

22 An overview of the multidatabase system MRDSM

Witold Litwin

October 1985 Proceedings of the 1985 ACM annual conference on The range of computing: mid-80's perspective: mid-80's perspective

Full text available: pdf(1.31 MB)

Additional Information: full citation, references, citings, index terms

23 4a --- Adaptive Hypertext: Linking in context

Samhaa R. El-Beltagy, Wendy Hall, David De Roure, Leslie Carr

September 2001 Proceedings of the twelfth ACM conference on Hypertext and Hypermedia

Full text available: pdf(367.88 KB)

Additional Information: full citation, abstract, references, citings, index terms

This paper explores the idea of dynamically adding multi-destination links to Web pages, based on the context of the pages and users, as a way of assisting Web users in their information finding and navigation activities. The work does not make any preconceived assumptions about the information needs of its users. Instead it presents a method for generating links by adapting to the information needs of a community of users and for

utilizing these in assisting users within this community based ...

Keywords: context, dynamic linking, information finding, link generation, links, navigation assistance, open hypermedia, software agents

24 Browsing through querying: designing for electronic books Nipon Charoenkitkarn, Jim Tam, Mark H. Chignell, Gene Golovchinsky December 1993 Proceedings of the fifth ACM conference on Hypertext

Full text available: 🔂 pdf(975.51 KB) Additional Information: full citation, references, index terms

Keywords: electronic books, hand-held computing, information retrieval, pen-based navigation, relevance feedback, text analysis

25 High level knowledge sources in usable speech recognition systems S. L. Young, A. G. Hauptmann, W. H. Ward, E. T. Smith, P. Werner February 1989 Communications of the ACM, Volume 32 Issue 2

Full text available: pdf(1.62 MB)

Additional Information: full citation, abstract, references, citings, index terms

The authors detail an integrated system which combines natural language processing with speech understanding in the context of a problem solving dialogue. The MINDS system uses a variety of pragmatic knowledge sources to dynamically generate expectations of what a user is likely to say.

26 Conceptual learning in database design

Yannis E. Ionnidis, Tomas Saulys, Andrew J. Whitsitt July 1992 ACM Transactions on Information Systems (TOIS), Volume 10 Issue 3

Full text available: pdf(2.00 MB)

Additional Information: full citation, abstract, references, citings, index

This paper examines the idea of incorporating machine learning algorithms into a database system for monitoring its stream of incoming queries and generating hierarchies with the most important concepts expressed in those queries. The goal is for these hierarchies to provide valuable input to the database administrator for dynamically modifying the physical and external schemas of a database for improved system performance and user productivity. The criteria for choosing the appropriate lea ...

Keywords: /UNIMEM, COBWEB, adaptive database systems, learning from examples

27 Query-based navigation in semantically indexed hypermedia Daniel Cunliffe, Carl Taylor, Douglas Tudhope April 1997 Proceedings of the eighth ACM conference on Hypertext

Full text available: pdf(940.06 KB) Additional Information: full citation, references, citings, index terms

Keywords: cultural heritage, hypermedia, museums, query-based navigation, semantic closeness, semantic index space

Object-oriented and database concepts for the design of networked information



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Norbert Fuhr

November 1996 Proceedings of the fifth international conference on Information and knowledge management

Full text available: pdf(1.04 MB)

Additional Information: full citation, references, citings, index terms

29 Model-driven development of Web applications: the AutoWeb system

Piero Fraternali, Paolo Paolini

October 2000 ACM Transactions on Information Systems (TOIS), Volume 18 Issue 4

Full text available: pdf(6.94 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper describes a methodology for the development of WWW applications and a tool environment specifically tailored for the methodology. The methodology and the development environment are based upon models and techniques already used in the hypermedia, information systems, and software engineering fields, adapted and blended in an original mix. The foundation of the proposal is the conceptual design of WWW applications, using HDM-lite, a notation for the specification of structure, nav ...

Keywords: HTML, WWW, application, development, intranet, modeling

30 Browsing and querying in object-oriented databases



Juliano Lopes de Oliveira, Ricardo de Oliveira Anido

December 1993 Proceedings of the second international conference on Information and knowledge management

Full text available: pdf(1.01 MB)

Additional Information: full citation, references, citings, index terms

31 The FINITE STRING Newsletter: Abstracts of current literature



Computational Linguistics Staff

January 1987 Computational Linguistics, Volume 13 Issue 1-2

Full text available: pdf(6.15 MB) Publisher Site

Additional Information: full citation

32 Information retrieval from hypertext using dynamically planned guided tours Catherine Guinan, Alan F. Smeaton



December 1993 Proceedings of the ACM conference on Hypertext

Full text available: 🔂 pdf(907.65 KB) Additional Information: full citation, references, citings, index terms

33 Web search 2: Personalized web search by mapping user queries to categories Fang Liu, Clement Yu, Weiyi Meng



November 2002 Proceedings of the eleventh international conference on Information and knowledge management

Full text available: pdf(286.83 KB)

Additional Information: full citation, abstract, references, citings, index

Current web search engines are built to serve all users, independent of the needs of any individual user. Personalization of web search is to carry out retrieval for each user

incorporating his/her interests. We propose a novel technique to map a user query to a set of categories, which represent the user's search intention. This set of categories can serve as a context to disambiguate the words in the user's query. A user profile and a general profile are learned from the user's search history ...

Keywords: category hierarchy, information filtering, personalization, search engine

34 Query processing techniques in the summary-table-by-example database query language

Gultekin Özsoyoğlu, Victor Matos, Meral Özsoyoğlu

December 1989 ACM Transactions on Database Systems (TODS), Volume 14 Issue 4

Full text available: pdf(3.52 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Summary-Table-by-Example (STBE) is a graphical language suitable for statistical database applications. STBE queries have a hierarchical subquery structure and manipulate summary tables and relations with set-valued attributes. The hierarchical arrangement of STBE queries naturally implies a tuple-by-tuple subquery evaluation strategy (similar to the nested loops join implementation technique) which may not be the best query processing strategy. In this paper we discuss the query ...

35 Placing search in context: the concept revisited

January 2002 ACM Transactions on Information Systems (TOIS), Volume 20 Issue 1

Full text available: pdf(926.20 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

Keyword-based search engines are in widespread use today as a popular means for Webbased information retrieval. Although such systems seem deceptively simple, a considerable amount of skill is required in order to satisfy non-trivial information needs. This paper presents a new conceptual paradigm for performing search in context, that largely automates the search process, providing even non-professional users with highly relevant results. This paradigm is implemented in practice in the Intelli ...

Keywords: Search, context, invisible web, semantic processing, statistical natural language processing

36 Semantic database modeling: survey, applications, and research issues Richard Hull, Roger King

September 1987 ACM Computing Surveys (CSUR), Volume 19 Issue 3

Full text available: pdf(5.42 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Most common database management systems represent information in a simple recordbased format. Semantic modeling provides richer data structuring capabilities for database applications. In particular, research in this area has articulated a number of constructs that provide mechanisms for representing structurally complex interrelations among data typically arising in commercial applications. In general terms, semantic modeling complements work on knowledge representation (in artificial int ...

³⁷ A transient hypergraph-based model for data access

Carolyn Watters, Michael A. Shepherd

April 1990 ACM Transactions on Information Systems (TOIS), Volume 8 Issue 2

Full text available: pdf(1.94 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Two major methods of accessing data in current database systems are guerying and browsing. The more traditional query method returns an answer set that may consist of data values (DBMS), items containing the answer (full text), or items referring the user to items containing the answer (bibliographic). Browsing within a database, as best exemplified by hypertext systems, consists of viewing a database item and linking to related items on the basis of some attribute or attribute value. ...

38 User interfaces: The data management facilities of PLAIN

Anthony I. Wasserman

May 1979 Proceedings of the 1979 ACM SIGMOD international conference on Management of data

Full text available: pdf(1.53 MB)

Additional Information: full citation, abstract, references, citings

The programming language PLAIN has been designed to support the construction of interactive information systems within the framework of a systematic programming methodology. One of the key goals of PLAIN has been to achieve an effective integration of programming language and database management concepts, rather than either the functional interface to database operations or the low-level database navigation operations present in other schemes. PLAIN incorporates a relational database defi ...

Keywords: abstract data types, database management, information systems, interactive programs, programming language design, relational algebra, relations, type checking

39 Complex queries in information visualizations: distributing instruction across documentation and interfaces

Barbara Mirel

October 1999 Proceedings of the 17th annual international conference on Computer documentation

Full text available: pdf(857.30 KB) Additional Information: full citation, abstract, citings, index terms

Successful visual querying requires users to understand what data selection means and how it works in interactive and dynamically linked graphics. Visually selecting data differs from writing query or search statements, and users who are new to visualizations have to learn this new paradigm of querying. A usability study that I conducted provides findings about problems that users encounter in visual selection when analyzing data for a realistic, complex business problem. These problems rev ...

Keywords: documentation, human factors, usability, user interface design, user testing, visualizations

40 The model-assisted global query system for multiple databases in distributed enterprises

Waiman Cheung, Cheng Hsu

October 1996 ACM Transactions on Information Systems (TOIS), Volume 14 Issue 4

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(697.73 KB) terms

Today's enterprises typically employ multiple information systems, which are independently developed, locally administered, and different in logical or physical designs. Therefore, a fundamental challenge in enterprise information management is the sharing of information for enterprise users across organizational boundaries; this requires a global query system capable of providing on-line intelligent assistance to users. Conventional technologies, such as schema-based query languages and ha ...

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Relevance scale

41 Fast and effective query refinement

Bienvenido Vélez, Ron Weiss, Mark A. Sheldon, David K. Gifford

window

July 1997 ACM SIGIR Forum, Proceedings of the 20th annual international ACM SIGIR conference on Research and development in information retrieval,

Volume 31 Issue SI

Full text available: pdf(1.86 MB)

Additional Information: full citation, references, citings, index terms

42 Session 5B: mobile software agents: ACQUIRE: agent-based complex query and information retrieval engine

Subrata Das, Kurt Shuster, Curt Wu

July 2002 Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 2

Full text available: pdf(1.07 MB)

Additional Information: full citation, abstract, references, citings, index

The heterogeneous, distributive and voluminous nature of many government and corporate data sources impose severe constraints on meeting the diverse requirements of users who analyze the data. Additionally, communication bandwidth limitations, time constraints, and multiplicity of data formats impose further restrictions on users of these distributed data sources. What is required is a reliable, robust, and efficient data retrieval technique that can access data from distributed data sources whi ...

Keywords: distributed data sources, information retrieval, interface agent, mobile agents, softbot

⁴³ Navigation by query in virtual worlds

Alex van Ballegooij, Anton Eliéns

February 2001 Proceedings of the sixth international conference on 3D Web technology

Full text available: pdf(785.90 KB) Additional Information: full citation, references, citings, index terms

Keywords: VRML, navigation, query

44 Distributed file systems: concepts and examples

Eliezer Levy, Abraham Silberschatz

December 1990 ACM Computing Surveys (CSUR), Volume 22 Issue 4

Full text available: pdf(5.33 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

The purpose of a distributed file system (DFS) is to allow users of physically distributed computers to share data and storage resources by using a common file system. A typical configuration for a DFS is a collection of workstations and mainframes connected by a local area network (LAN). A DFS is implemented as part of the operating system of each of the connected computers. This paper establishes a viewpoint that emphasizes the dispersed structure and decentralization of both data and con ...

45 Fast evaluation of structured gueries for information retrieval

Eric W. Brown

July 1995 Proceedings of the 18th annual international ACM SIGIR conference on Research and development in information retrieval

Full text available: pdf(1.15 MB)

Volume 13 Issue 1

Additional Information: full citation, references, citings, index terms

46 Retrieval effectiveness of an ontology-based model for information selection

Latifur Khan, Dennis McLeod, Eduard Hovy January 2004 The VLDB Journal — The International Journal on Very Large Data Bases,

Full text available: pdf(278.74 KB) Additional Information: full citation, abstract, index terms

Technology in the field of digital media generates huge amounts of nontextual information, audio, video, and images, along with more familiar textual information. The potential for exchange and retrieval of information is vast and daunting. The key problem in achieving efficient and user-friendly retrieval is the development of a search mechanism to quarantee delivery of minimal irrelevant information (high precision) while insuring relevant information is not overlooked (high recall). The tradi ...

Keywords: Audio, Metadata, Ontology, Precision, Recall, SQL

47 Research sessions: query processing I: Partial results for online query processing Vijayshankar Raman, Joseph M. Hellerstein

June 2002 Proceedings of the 2002 ACM SIGMOD international conference on Management of data

Full text available: pdf(1.45 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, index terms

Traditional query processors generate full, accurate query results, either in batch or in pipelined fashion. We argue that this strict model is too rigid for exploratory queries over diverse and distributed data sources, such as sources on the Internet. Instead, we propose a looser model of querying in which a user submits a broad initial query outline, and the system continually generates partial result tuples that may contain values for only some of the output fields. The user can watch ...

48 Interface and data architecture for query preview in networked information systems Catherine Plaisant, Ben Shneiderman, Khoa Doan, Tom Bruns July 1999 ACM Transactions on Information Systems (TOIS), Volume 17 Issue 3

Full text available: pdf(1.06 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

There are numerous problems associated with formulating queries on networked information systems. These include increased data volume and complexity, accompanied by slow network access. This article proposes a new approach to a network query user interfaces that consists of two phases: query preview and query refinement. This new approach is based on the concepts of dynamic queries and query previews, which guides users in rapidly and dynamically eliminating undesired records, reducing the ...

Keywords: EOSDIS, direct manipulation, dynamic query, graphical user interface, query preview, query refinement, science data

49 Using Web Service Technologies to Create an Information Broker: An Experience Report



May 2004 Proceedings of the 26th International Conference on Software Engineering

Full text available: pdf(305.99 KB) Publisher Site

Additional Information: full citation, abstract

This paper reports on our experiences with using theemerging web service technologies and tools to create ademonstration information broker system as part of ourresearch into information management in a distributed environment. To provide a realistic context we chose tostudy the use of information in the healthcare domain, and this context sets some challenging parameters and constraints for our research and for the demonstrationsystem. In this paper we both report on the extent towhich existing we ...

50 InfoSleuth: agent-based semantic integration of information in open and dynamic environments



R. J. Bayardo, W. Bohrer, R. Brice, A. Cichocki, J. Fowler, A. Helal, V. Kashyap, T. Ksiezyk, G. Martin, M. Nodine, M. Rashid, M. Rusinkiewicz, R. Shea, C. Unnikrishnan, A. Unruh, D. Woelk June 1997 ACM SIGMOD Record, Proceedings of the 1997 ACM SIGMOD international conference on Management of data, Volume 26 Issue 2

Full text available: pdf(1.69 MB)

Additional Information: full citation, abstract, references, citings, index terms

The goal of the InfoSleuth project at MCC is to exploit and synthesize new technologies into a unified system that retrieves and processes information in an ever-changing network of information sources. InfoSleuth has its roots in the Carnot project at MCC, which specialized in integrating heterogeneous information bases. However, recent emerging technologies such as internetworking and the World Wide Web have significantly expanded the types, availability, and volume of data available to a ...

51 TourisT: the application of a description logic based semantic hypermedia system for tourism



Joe Bullock, Carole Goble

May 1998 Proceedings of the ninth ACM conference on Hypertext and hypermedia: links, objects, time and space---structure in hypermedia systems: links, objects, time and space---structure in hypermedia systems

Full text available: pdf(1.57 MB) Additional Information: full citation, references, citings, index terms

52 Research sessions: query processing II: Minimal probing: supporting expensive predicates for top-k queries

Kevin Chen-Chuan Chang, Seung-won Hwang

June 2002 Proceedings of the 2002 ACM SIGMOD international conference on Management of data

Full text available: pdf(1.53 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper addresses the problem of evaluating ranked top-k queries with expensive predicates. As major DBMSs now all support expensive user-defined predicates for Boolean queries, we believe such support for ranked queries will be even more important: First ranked queries often need to model user-specific concepts of preference, relevance, or similarity, which call for dynamic user-defined functions. Second, middleware systems must incorporate external predicates for integrating autonomo ...

53 Searching in metric spaces with user-defined and approximate distances Paolo Ciaccia, Marco Patella

December 2002 ACM Transactions on Database Systems (TODS), Volume 27 Issue 4

Full text available: pdf(555.89 KB)

Additional Information: full citation, abstract, references, citings, index terms

Novel database applications, such as multimedia, data mining, e-commerce, and many others, make intensive use of similarity queries in order to retrieve the objects that better fit a user request. Since the effectiveness of such queries improves when the user is allowed to personalize the similarity criterion according to which database objects are evaluated and ranked, the development of access methods able to efficiently support user-defined similarity queries becomes a basic requirement. In t ...

Keywords: Distance metrics, user-defined queries

⁵⁴ Adaptively constructing the query interface for meta-search engines Lieming Huang, Thiel Ulrich, Matthias Hemmje, Erich J. Neuhold January 2001 Proceedings of the 6th international conference on Intelligent user interfaces

Full text available: pdf(260.48 KB) Additional Information: full citation, abstract, references, index terms

With the exponential growth of information on the Internet, current information integration systems have become more and more unsuitable for this "Internet age" due to the great diversity among sources. This paper presents a constraint-based query user interface model, which can be applied to the construction of dynamically generated adaptive user interfaces for meta-search engines.

55 Extending document management systems with user-specific active properties Paul Dourish, W. Keith Edwards, Anthony LaMarca, John Lamping, Karin Petersen, Michael Salisbury, Douglas B. Terry, James Thornton April 2000 ACM Transactions on Information Systems (TOIS), Volume 18 Issue 2

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(166.43 KB) terms

Document properties are a compelling infrastructure on which to develop document management applications. A property-based approach avoids many of the problems of traditional heierarchical storage mechanisms, reflects document organizations meaningful to user tasks, provides a means to integrate the perspectives of multiple individuals and groups, and does this all within a uniform interaction framework. Document properties can reflect not only categorizations of documents and document use ...

Keywords: active properties, component software, document management systems, document services, user experience

A high-level and flexible framework for implementing multiuser user interfaces



Prasun Dewan, Rajiv Choudhary

October 1992 ACM Transactions on Information Systems (TOIS), Volume 10 Issue 4

Full text available: pdf(2.82 MB)

Additional Information: full citation, abstract, references, citings, index terms

We have developed a high-level and flexible framework for supporting the construction of multiuser interfaces. The framework is based on a generalized editing interaction model, which allows users to view programs as active data that can be concurrently edited by multiple users. It consists of several novel components including a refinement of both the Seeheim UIMS architecture and the distributed graphics architecture that explicitly addresses multiuser interaction; the abstractions of sha ...

Keywords: computer-supported cooperative work, editing, groupware, user interface management systems

57 Proxy-based acceleration of dynamically generated content on the world wide web: An approach and implementation



Anindya Datta, Kaushik Dutta, Helen Thomas, Debra Vandermeer, Krithi Ramamritham June 2004 ACM Transactions on Database Systems (TODS), Volume 29 Issue 2

Full text available: pdf(927.23 KB) Additional Information: full citation, abstract, references, index terms

As Internet traffic continues to grow and websites become increasingly complex, performance and scalability are major issues for websites. Websites are increasingly relying on dynamic content generation applications to provide website visitors with dynamic, interactive, and personalized experiences. However, dynamic content generation comes at a cost---each request requires computation as well as communication across multiple components. To address these issues, various dynamic content caching ap ...

Keywords: Edge caching, caching dynamically generated content, fragment caching, implementation, proxy caching, world wide web

58 Poster papers - short papers: Finding more useful information faster from web search results



Yi-fang Brook Wu, Latha Shankar, Xin Chen

November 2003 Proceedings of the twelfth international conference on Information and knowledge management

Full text available: pdf(2.02 MB)

Additional Information: full citation, abstract, references, index terms

In this paper, we propose a prototype system for automatic generation of concept hierarchies to be used as an overview of search results. The system sends a user's guery to five search engines and receives a returned list of relevant web pages. The system then extracts query-oriented concept terms from snippets that come with the returned hits. Concept terms are organized into a concept hierarchy using a co-occurrence-based classification technique. Finally, concepts in returned documents are dy ...

Keywords: concept hierarchy, hierarchical summarization

⁵⁹ A methodology for the automatic construction of a hypertext for information retrieval Maristella Agosti, Fabio Crestani



March 1993 Proceedings of the 1993 ACM/SIGAPP symposium on Applied computing: states of the art and practice

Full text available: pdf(961.03 KB) Additional Information: full citation, references, citings, index terms, review

60 Ad Hoc Query: a reusable database access capability

J. Wolfe

July 1994 Proceedings of the eleventh annual Washington Ada symposium & summer **ACM SIGAda meeting on Ada**

Full text available: pdf(1.06 MB)

Additional Information: full citation, references, index terms

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Relevance scale

61 Version models for software configuration management

Reidar Conradi, Bernhard Westfechtel

June 1998 ACM Computing Surveys (CSUR), Volume 30 Issue 2

Full text available: pdf(483.54 KB)

Additional Information: full citation, abstract, references, citings, index terms

After more than 20 years of research and practice in software configuration management (SCM), constructing consistent configurations of versioned software products still remains a challenge. This article focuses on the version models underlying both commercial systems and research prototypes. It provides an overview and classification of different versioning paradigms and defines and relates fundamental concepts such as revisions, variants, configurations, and changes. In particular, we foc ...

Keywords: changes, configuration rules, configurations, revisions, variants, versions

62 An approach to support automatic generation of user interfaces

Prasun Dewan, Marvin Solomon

October 1990 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 12 Issue 4

Full text available: pdf(3.55 MB)

Additional Information: full citation, abstract, references, citings, index

In traditional interactive programming environments, each application individually manages its interaction with the human user. The result is duplication of effort in implementing user interface code and nonuniform—hence confusing—input conventions. This paper presents an approach to support automatic generation of user interfaces in environments based on algebraic languages. The approach supports the editing model of interaction, which allows a user to view all appli ...

63 Snap-together visualization: a user interface for coordinating visualizations via relational schemata

Chris North, Ben Shneiderman

May 2000 Proceedings of the working conference on Advanced visual interfaces

Full text available: pdf(2.11 MB)

Additional Information: full citation, abstract, references, citings

Multiple coordinated visualizations enable users to rapidly explore complex information. However, users often need unforeseen combinations of coordinated visualizations that are appropriate for their data. Snap-Together Visualization enables data users to rapidly and dynamically mix and match visualizations and coordinations to construct custom exploration interfaces without programming. Snap's conceptual model is based on the relational database model. Users load relations into visualizati ...

Keywords: coordination, information visualization, multiple views, relational database, tight coupling, user interface, user study

64 An algebraic language for graphical query formulation using an extended entityrelationship model



Bogdan Czejdo, Ramez Elmasri, Marek Rusinkiewicz, David W. Embley February 1987 Proceedings of the 15th annual conference on Computer Science

Full text available: pdf(847.38 KB)

Additional Information: full citation, abstract, references, citings, index terms

The Entity-Category-Relationship (ECR) model extends the Entity-Relationship (ER) model with the concepts of subclass and generalization categories. In this paper a graphical representation of the ECR model and its application as the basis for an interactive query language are discussed. The proposed query language is based on algebraic operators that can be used to transform an ECR diagram so that it represents a desired query. Semantics of the algebraic operators are formally defined. A m ...

65 Object-based navigation: an intuitive navigation style for content-oriented integration environment



Kyoji Hirata, Sougata Mukherjea, Yusaku Okamura, Wen-Syan Li, Yoshinori Hara April 1997 Proceedings of the eighth ACM conference on Hypertext

Full text available: pdf(1.29 MB)

Additional Information: full citation, references, citings, index terms

Keywords: COIR, World-Wide Web, content-oriented integration, object-based navigation, object-level integration, relationship among objects

66 SenseMaker: an information-exploration interface supporting the contextual evolution of a user's interests



Michelle Q. Wang Baldonado, Terry Winograd

March 1997 Proceedings of the SIGCHI conference on Human factors in computing systems

Full text available: pdf(1.02 MB)

Additional Information: full citation, references, citings, index terms

Keywords: digital libraries, information exploration, information retrieval, information seeking

67 ObjectGlobe: Ubiquitous query processing on the Internet

R. Braumandl, M. Keidl, A. Kemper, D. Kossmann, A. Kreutz, S. Seltzsam, K. Stocker August 2001 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 10 Issue 1

Full text available: pdf(251.44 KB) Additional Information: full citation, abstract, index terms

We present the design of ObjectGlobe, a distributed and open query processor for Internet data sources. Today, data is published on the Internet via Web servers which have, if at all, very localized query processing capabilities. The goal of the ObjectGlobe project is to establish an open marketplace in which data and query processing capabilities can be distributed and used by any kind of Internet application. Furthermore, ObjectGlobe integrates cycle providers (i.e., machi ...

Keywords: Cycle-, function- and data provider, Distributed query processing, Open systems, Privacy, Quality of service, Query optimization, Security

68 Parallel execution of prolog programs: a survey

Gopal Gupta, Enrico Pontelli, Khayri A.M. Ali, Mats Carlsson, Manuel V. Hermenegildo July 2001 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 23 Issue 4

Full text available: pdf(1.95 MB)

Additional Information: full citation, abstract, references, citings, index terms

Since the early days of logic programming, researchers in the field realized the potential for exploitation of parallelism present in the execution of logic programs. Their high-level nature, the presence of nondeterminism, and their referential transparency, among other characteristics, make logic programs interesting candidates for obtaining speedups through parallel execution. At the same time, the fact that the typical applications of logic programming frequently involve irregular computatio ...

Keywords: Automatic parallelization, constraint programming, logic programming. parallelism, prolog

69 MIMIC: an adaptive mixed initiative spoken dialogue system for information queries Jennifer Chu-Carroll

April 2000 Proceedings of the sixth conference on Applied natural language processing

Full text available: pdf(774.53 KB)

Publisher Site

Additional Information: full citation, abstract, references, citings

This paper describes MIMIC, an adaptive mixed initiative spoken dialogue system that provides movie showtime information. MIMIC improves upon previous dialogue systems in two respects. First, it employs initiative-oriented strategy adaptation to automatically adapt response generation strategies based on the cumulative effect of information dynamically extracted from user utterances during the dialogue. Second, MIMIC's dialogue management architecture decouples its initiative module from the goa ...

70 Developing and empirically evaluating robust explanation generators: the KNIGHT experiments

James C. Lester, Bruce W. Porter

March 1997 Computational Linguistics, Volume 23 Issue 1

Full text available: pdf(2.64 MB) Additional Information: full citation, abstract, references, citings Publisher Site

To explain complex phenomena, an explanation system must be able to select information from a formal representation of domain knowledge, organize the selected information into multisentential discourse plans, and realize the discourse plans in text. Although recent years have witnessed significant progress in the development of sophisticated computational mechanisms for explanation, empirical results have been limited. This paper reports on a seven-year effort to empirically study explanation ge ...

71 Logical foundations of object-oriented and frame-based languages Michael Kifer, Georg Lausen, James Wu

July 1995 Journal of the ACM (JACM), Volume 42 Issue 4

Full text available: pdf(7.52 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

We propose a novel formalism, called Frame Logic (abbr., F-logic), that accounts in a clean and declarative fashion for most of the structural aspects of object-oriented and framebased languages. These features include object identity, complex objects, inheritance, polymorphic types, query methods, encapsulation, and others. In a sense, F-logic stands in the same relationship to the object-oriented paradigm as classical predicate calculus stands to relational programming. ...

Keywords: deductive databases, frame-based languages, logic programming, nonmonotonic inheritance, object-oriented programming, proof theory, semantics, typing

72 Graph-based retrieval of information in hypertext systems

Yuri Quintana, Mohamed Kamel, Andrew Lo

November 1992 Proceedings of the 10th annual international conference on Systems documentation

Full text available: pdf(1.07 MB)

Additional Information: full citation, references, citings, index terms

73 Technical reports

SIGACT News Staff

January 1980 ACM SIGACT News, Volume 12 Issue 1

Full text available: pdf(5.28 MB) Additional Information: full citation

74 The Desert environment

Steven P. Reiss

October 1999 ACM Transactions on Software Engineering and Methodology (TOSEM), Volume 8 Issue 4

Full text available: pdf(868.64 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

The Desert software engineering environment is a suite of tools developed to enhance programmer productivity through increased tool integration. It introduces an inexpensive form of data integration to provide additional tool capabilities and information sharing among tools, uses a common editor to give high-quality semantic feedback and to integrate different types of software artifacts, and builds virtual files on demand to address specific tasks. All this is done in an open and extensibl ...

Keywords: integrated programming environments, program editors

75 Object orientation in multidatabase systems

Evaggelia Pitoura, Omran Bukhres, Ahmed Elmagarmid June 1995 ACM Computing Surveys (CSUR), Volume 27 Issue 2

Full text available: pdf(4.85 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

A multidatabase system (MDBS) is a confederation of preexisting distributed, heterogeneous, and autonomous database systems. There has been a recent proliferation of research suggesting the application of object-oriented techniques to facilitate the complex task of designing and implementing MDBSs. Although this approach seems promising, the

lack of a general framework impedes any further development. The goal of this paper is to provide a concrete analysis and categorization of the various ...

Keywords: distributed objects, federated databases, integration, multidatabases, views

76 Interactive term suggestion for users of digital libraries: using subject thesauri and cooccurrence lists for information retrieval



Bruce R. Schatz, Eric H. Johnson, Pauline A. Cochrane, Hsinchun Chen

April 1996 Proceedings of the first ACM international conference on Digital libraries

Full text available: pdf(974.58 KB) Additional Information: full citation, references, citings, index terms

77 Tools and approaches for developing data-intensive Web applications: a survey Piero Fraternali



September 1999 ACM Computing Surveys (CSUR), Volume 31 Issue 3

Full text available: pdf(524.80 KB)

Additional Information: full citation, abstract, references, citings, index terms

The exponential growth and capillar diffusion of the Web are nurturing a novel generation of applications, characterized by a direct business-to-customer relationship. The development of such applications is a hybrid between traditional IS development and Hypermedia authoring, and challenges the existing tools and approaches for software production. This paper investigates the current situation of Web development tools, both in the commercial and research fields, by identifying and characte ...

Keywords: HTML, Intranet, WWW, application, development

78 The STARS process engine: language and architecture to support process capture and multi-user execution



Scott Arthur Moody

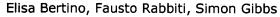
November 1994 Proceedings of the conference on TRI-Ada '94

Full text available: pdf(1.43 MB)

Additional Information: full citation, abstract, references, citings, index

Process-centered computing environments are currently in their infancy, with notable exceptions [1][19][21][22]. Two important components of envisioned environments are the language used to describe the processes, and the architecture for the language implementation and execution. These must support the multi-user emphasis of team work, process monitoring, process improvement, and automated execution. This paper reports on the STARS Process Engin ...

79 Query processing in a multimedia document system



January 1988 ACM Transactions on Information Systems (TOIS), Volume 6 Issue 1

Full text available: pdf(2.94 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

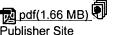
Query processing in a multimedia document system is described. Multimedia documents are information objects containing formatted data, text, image, graphics, and voice. The query language is based on a conceptual document model that allows the users to formulate queries on both document content and structure. The architecture of the system is outlined, with focus on the storage organization in which both optical and magnetic devices can coexist. Query processing and the different strategies ...

80 Special issue on user modeling: Modeling the user's plans and goals



Sandra Carberry

September 1988 Computational Linguistics, Volume 14 Issue 3



Full text available: pdf(1.66 MB) Additional Information: full citation, abstract, references, citings

This work is an ongoing research effort aimed both at developing techniques for inferring and constructing a user model from an information-seeking dialog and at identifying strategies for applying this model to enhance robust communication. One of the most important components of a user model is a representation of the system's beliefs about the underlying task-related plan motivating an information-seeker's queries. These beliefs can be used to interpret subsequent utterances and produce usefu ...

Results 61 - 80 of 200

Result page: <u>previous</u> 1 2 3 4 5 6 7 8 9 10 next

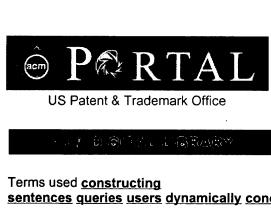
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Relevance scale

<u>Distributed systems - programming and management:</u> On remote procedure call Patrícia Gomes Soares



November 1992 Proceedings of the 1992 conference of the Centre for Advanced Studies on Collaborative research - Volume 2

Full text available: pdf(4.52 MB)

Additional Information: full citation, abstract, references, citings

The Remote Procedure Call (RPC) paradigm is reviewed. The concept is described, along with the backbone structure of the mechanisms that support it. An overview of works in supporting these mechanisms is discussed. Extensions to the paradigm that have been proposed to enlarge its suitability, are studied. The main contributions of this paper are a standard view and classification of RPC mechanisms according to different perspectives, and a snapshot of the paradigm in use today and of goals for t ...

82 InfoCrystal: a visual tool for information retrieval & management Anselm Spoerri

window



December 1993 Proceedings of the second international conference on Information and knowledge management

Full text available: Ddf(999.84 KB) Additional Information: full citation, references, citings, index terms

Image Retrieval: Support vector machine active learning for image retrieval Simon Tong, Edward Chang



October 2001 Proceedings of the ninth ACM international conference on Multimedia

Full text available: pdf(1.57 MB)

Additional Information: full citation, abstract, references, citings, index terms

Relevance feedback is often a critical component when designing image databases. With these databases it is difficult to specify queries directly and explicitly. Relevance feedback interactively determinines a user's desired output or query concept by asking the user whether certain proposed images are relevant or not. For a relevance feedback algorithm to be effective, it must grasp a user's query concept accurately and quickly, while also only asking the user to label a small number of ...

Keywords: active learning, image retrieval, query concept, relevance feedback, support vector machines

84	Interoperability	of multiple	autonomous	databases
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Witold Litwin, Leo Mark, Nick Roussopoulos

September 1990 ACM Computing Surveys (CSUR), Volume 22 Issue 3

Full text available: pdf(2.66 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Database systems were a solution to the problem of shared access to heterogeneous files created by multiple autonomous applications in a centralized environment. To make data usage easier, the files were replaced by a globally integrated database. To a large extent, the idea was successful, and many databases are now accessible through local and longhaul networks. Unavoidably, users now need shared access to multiple autonomous databases. The question is what the corresponding methodology ...

85 The Distributed Double-Loop Computer Network (DDLCN)

Ming T. Liu, Sandra A. Mamrak, Jayshree Ramanathan

January 1980 Proceedings of the ACM 1980 annual conference

Full text available: pdf(1.34 MB) Additional Information: full citation, abstract, references, index terms

This paper presents the design of the Distributed Double-Loop Computer Network (DDLCN), which is a local-area distributed computing system that interconnects midi, mini and micro computers using a fault-tolerant double-loop network. Several new features and novel concepts have been incorporated into the design of its subsystems, viz., the reliable communication network, the programming/operating system (P/OS), and the distributed loop data base system (DLDBS). The interface design is unique ...

86 Graphical query specification and dynamic result previews for a digital library Steve Jones

November 1998 Proceedings of the 11th annual ACM symposium on User interface software and technology

Full text available: pdf(388.97 KB) Additional Information: full citation, references, citings, index terms

Keywords: dynamic queries, query by diagram, query previews

87 An incremental access method for ViewCache: concept, algorithms, and cost analysis Nicholas Roussopoulos

September 1991 ACM Transactions on Database Systems (TODS), Volume 16 Issue 3

Full text available: pdf(1.71 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

A ViewCache is a stored collection of pointers pointing to records of underlying relations needed to materialize a view. This paper presents an Incremental Access Method (IAM) that amortizes the maintenance cost of ViewCaches over a long time period or indefinitely. Amortization is based on deferred and other update propagation strategies. A deferred update strategy allows a ViewCache to remain outdated until a query needs to selectively or ...

Keywords: terms

88 Content-based image retrieval for multimedia databases: Image database retrieval utilizing affinity relationships

Mei-Ling Shyu, Shu-Ching Chen, Min Chen, Chengcui Zhang, Kanoksri Sarinnapakorn November 2003 Proceedings of the first ACM international workshop on Multimedia

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Full text available: pdf(554.57 KB) Additional Information: full citation, abstract, references, index terms

Recent research effort in Content-Based Image Retrieval (CBIR) focuses on bridging the gap between low-level features and high-level semantic contents of images as this gap has become the bottleneck of CBIR. In this paper, an effective image database retrieval framework using a new mechanism called the Markov Model Mediator (MMM) is presented to meet this demand by taking into consideration not only the low-level image features, but also the high-level concepts learned from the history of user's ...

89 Research directions in object-oriented database systems

Won Kim

April 1990 Proceedings of the ninth ACM SIGACT-SIGMOD-SIGART symposium on **Principles of database systems**

Full text available: pdf(2.02 MB)

Additional Information: full citation, abstract, references, citings, index

The set of object-oriented concepts found in object-oriented programming languages forms a good basis for a data model for post-relational database systems which will extend the domain of database applications beyond conventional business data processing. However, despite the high level of research and development activities during the past several years, there is no standard object-oriented data model, and criticisms and concerns about the field still remain. In this paper, I will first pr ...

90 A case-based architecture for a dialogue manager for information-seeking processes Anne Tissen



September 1991 Proceedings of the 14th annual international ACM SIGIR conference on Research and development in information retrieval

Full text available: pdf(1.04 MB)

Additional Information: full citation, references, citings, index terms

⁹¹ Complex relationships and knowledge discovery support in the InfoQuilt system



A. Sheth, S. Thacker, S. Patel

May 2003 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 12 Issue 1

Full text available: 📆 pdf(596.98 KB) Additional Information: full citation, abstract, index terms

Support for semantic content is becoming more common in Web-accessible information systems. We see this support emerging with the use of ontologies and machine-readable, annotated documents. The practice of domain modeling coupled with the extraction of domain-specific, contextually relevant metadata also supports the use of semantics. These advancements enable knowledge discovery approaches that define complex relationships between data that is autonomously collected and managed. The InfoQuilt ...

92 Towards an intelligent and personalized retrieval system



S H Myaeng, R R Korfhage

December 1986 Proceedings of the ACM SIGART international symposium on Methodologies for intelligent systems

Full text available: pdf(665.87 KB) Additional Information: full citation, abstract, references, index terms

Development of an information retrieval system that can be personalized to each user requires maintaining and continually updating an interest profile for each individual user. Since people tend to be poor at self-description, it is suggested that profile development and maintenance is an area in which machine learning and knowledge based techniques can be profitably employed. This paper presents a model for such an application of AI techniques.

93 The use of description logics in KBSE systems

Premkumar Devanbu, Mark A. Jones



Full text available: pdf(365.07 KB)

Additional Information: full citation, abstract, references, citings, index terms

The increasing size and complexity of many software systems demand a greater emphasis on capturing and maintaining knowledge at many different levels within the software development process. This knowledge includes descriptions of the hardware and software components and their behavior, external and internal design specifications, and support for system testing. The Knowledge-based software engineering (KBSE) research paradigm is concerned with systems that use formally represented knowledg ...

Keywords: automated software engineering, knowledge basis, logics, software development environments, testing, tools

94 Technical Papers: SEAL: a framework for developing SEmantic PortALs Nenad Stojanovic, Alexander Maedche, Steffen Staab, Rudi Studer, York Sure October 2001 Proceedings of the international conference on Knowledge capture

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(497.57 KB)

The core idea of the Semantic Web is to make information accessible to human and software agents on a semantic basis. Hence, Web sites may feed directly from the Semantic Web exploiting the underlying structures for human and machine access. We have developed a domain-independent approach for developing semantic portals, viz. SEAL (SEmantic portAL), that exploits semantics for providing and accessing information at a portal as well as constructing and maintaining the portal. In this paper we foc ...

Keywords: knowledge portal, ontology, semantic web

95 Emancipating instances from the tyranny of classes in information modeling Jeffrey Parsons, Yair Wand

June 2000 ACM Transactions on Database Systems (TODS), Volume 25 Issue 2

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(204.47 KB) terms, review

Database design commonly assumes, explicitly or implicitly, that instances must belong to classes. This can be termed the assumption of inherent classification. We argue that the extent and complexity of problems in schema integration, schema evolution, and interoperability are, to a large degree, consequences of inherent classification. Furthermore, we make the case that the assumption of inherent classification violates philosophical and cognitive guidelines on classifica ...

Keywords: classification, conceptual modeling, database design, interoperability, ontology, schema evolution, schema integration

96 <u>Domain-independent natural language interfaces: Problems in natural-language</u> interface to DBMS with examples from EUFID

Marjorie Templeton, John Burger

February 1983 Proceedings of the first conference on Applied natural language processing

Full text available:

<u>pdf(1.18 M</u>B) Additional Information: full citation, abstract, references, citings Publisher Site

For five years the End-User Friendly Interface to Data management (EUFID) project team at System Development Corporation worked on the design and implementation of a Natural-Language Interface (NLI) system that was to be independent of both the application and the database management system. In this paper we describe application, natural-language and database management problems involved in NLI development, with specific reference to the EUFID system as an example.

97 Data management issues in electronic commerce: Supporting global user profiles through trusted authorities

Ibrahim Cingil

March 2002 ACM SIGMOD Record, Volume 31 Issue 1

Full text available: pdf(497.02 KB) Additional Information: full citation, abstract, references, citings

Personalization generally refers to making a Web site more responsive to the unique and individual needs of each user. We argue that for personalization to work effectively, detailed and interoperable user profiles should be globally available for authorized sites, and these profiles should dynamically reflect the changes in user interests. Creating user profiles from user click-stream data seems to be an effective way of generating detailed and dynamic user profiles. However a user profile gener ...

Web usage mining for Web site evaluation

Myra Spiliopoulou

August 2000 Communications of the ACM, Volume 43 Issue 8

Full text available: pdf(1.32 MB) Additional Information: full citation, references, citings, index terms html(45.37 KB)

User modeling II: Magpie: supporting browsing and navigation on the semantic web John Domingue, Martin Dzbor



January 2004 Proceedings of the 9th international conference on Intelligent user

Full text available: pdf(611.44 KB) Additional Information: full citation, abstract, references, index terms

We describe several advanced functionalities of Magpie -- a tool that assists users with interpreting the web resources. Magpie is an extension to the Internet Explorer that automatically creates a semantic layer for web pages using a user-selected ontology. Semantic layers are annotations of a web page, with a set of applicable semantic services attached to the annotated items. We argue that the ability to generate different semantic layers for a web resource is vital to support the interpretat ...

Keywords: browsing history management, named entity recognition, semantic web, semantic web services

100 Evolution support in large-scale interoperable systems: a metadata driven approach. Nick Pittas, Andrew. C. Jones, W. A. Gray



January 2001 Proceedings of the 12th Australasian conference on Database technologies

Full text available: pdf(881.72 KB)

Publisher Site

Additional Information: full citation, abstract, references, index terms

One of the fundamental difficulties associated with large-scale database interoperation is

the cost and effort required for maintaining the federation in a consistent state after its launch. If only human intervention is to be assumed the task of maintaining logical federation consistency becomes insurmountable as the scale increases. The need for research towards a federation evolution model which takes into account evolving semantic aspects is becoming severe. We discuss desirable properties o ...

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Relevance scale

101 1a---Links and Navigation: The look of the link - concepts for the user interface of extended hyperlinks

Harald Weinreich, Hartmut Obendorf, Winfried Lamersdorf

September 2001 Proceedings of the twelfth ACM conference on Hypertext and Hypermedia

Full text available: pdf(307.01 KB)

Additional Information: full citation, abstract, references, citings, index terms

The design of hypertext systems has been subject to intense research. Apparently, one topic was mostly neglected: how to visualize and interact with link markers.

This paper presents an overview of pragmatic historical approaches, and discusses problems evolving from sophisticated hypertext linking features. Blending the potential of an XLink-enhanced Web with old ideas and recent GUI techniques, a vision for browser link interfaces of the future is being developed. We hope to stimula ...

Keywords: Web, XLink, distributed hypertext, link marker, user interface

102 View management in multimedia databases

K. Selçuk Candan, Eric Lemar, V. S. Subrahmanian

July 2000 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 9 Issue 2

Full text available: 📆 pdf(322.82 KB) Additional Information: full citation, abstract, index terms

Though there has been extensive work on multimedia databases in the last few years, there is no prevailing notion of a multimedia view, nor there are techniques to create, manage, and maintain such views. Visualizing the results of a dynamic multimedia query or materializing a dynamic multimedia view corresponds to assembling and delivering an interactive multimedia presentation in accordance with the visualization specifications. In this paper, we suggest that a non-interactive multimedia prese ...

Keywords: Interactivity, Multimedia databases, Prefetching, Result visualization/presentation, View management

103

A visual retrieval environment for hypermedia information systems

Dario Lucarella, Antonella Zanzi January 1996 ACM Transactions on Information Systems (TOIS), Volume 14 Issue 1

Full text available: pdf(1.76 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

We present a graph-based object model that may be used as a uniform framework for direct manipulation of multimedia information. After an introduction motivating the need for abstraction and structuring mechanisms in hypermedia systems, we introduce the data model and the notion of perspective, a form of data abstraction that acts as a user interface to the system, providing control over the visibility of the objects and their properties. A perspective is defined to include an intension and ...

Keywords: browsing, complex objects, direct object manipulation, graph-oriented models, hypermedia applications, information filtering, visual interface

104 Evaluating top-k queries over web-accessible databases

Amélie Marian, Nicolas Bruno, Luis Gravano

June 2004 ACM Transactions on Database Systems (TODS), Volume 29 Issue 2

Full text available: pdf(1.03 MB) Additional Information: full citation, abstract, references, index terms

A query to a web search engine usually consists of a list of keywords, to which the search engine responds with the best or "top" k pages for the query. This top-k query model is prevalent over multimedia collections in general, but also over plain relational data for certain applications. For example, consider a relation with information on available restaurants, including their location, price range for one diner, and overall food rating. A user who gueries such a relation might ...

Keywords: Parallel query processing, query optimization, top-k query processing, web databases.

105 Efficient dynamic mining of constrained frequent sets

Laks V. S. Lakshmanan, Carson Kai-Sang Leung, Raymond T. Ng December 2003 ACM Transactions on Database Systems (TODS), Volume 28 Issue 4

Full text available: 🔁 pdf(451.65 KB) Additional Information: full citation, abstract, references, index terms

Data mining is supposed to be an iterative and exploratory process. In this context, we are working on a project with the overall objective of developing a practical computing environment for the human-centered exploratory mining of frequent sets. One critical component of such an environment is the support for the dynamic mining of constrained frequent sets of items. Constraints enable users to impose a certain focus on the mining process; dynamic means that, in the middle of the computation, u ...

Keywords: Association rules, constraints, data mining, dynamic changes, frequent sets, limited buffer space

106 Hyperform: a hypermedia system development environment

Uffe K. Wiil, John J. Leggett

January 1997 ACM Transactions on Information Systems (TOIS), Volume 15 Issue 1

Full text available: pdf(362.84 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

Development of hypermedia systems is a complex matter. The current trend toward open, extensible, and distributed multiuser hypermedia systems adds additional complexity to the development process. As a means of reducing this complexity, there has been an

increasing interest in hyperbase management systems that allow hypermedia system developers to abstract from the intricacies and complexity of the hyperbase layer and fully attend to application and user interface issues. Design, developme ...

Keywords: advanced hypermedia system architecture, extensible hyperbase management system, object-oriented extension language

107 Information retrieval 1: Query association for effective retrieval

Falk Scholer, Hugh E. Williams

November 2002 Proceedings of the eleventh international conference on Information and knowledge management

Full text available: pdf(151.13 KB)

Additional Information: full citation, abstract, references, citings, index terms

We introduce a novel technique for document summarisation which we call query association. Query association is based on the notion that a query that is highly similar to a document is a good descriptor of that document. For example, the user query "richmond football club" is likely to be a good summary of the content of a document that is ranked highly in response to the query. We describe this process of defining, maintaining, and presenting the relationship between a user query and the docume ...

Keywords: past queries, query association, relevance assessment, summarisation, web search

108 An object-oriented approach to multi-level association rule mining

Scott Fortin, Ling Liu

November 1996 Proceedings of the fifth international conference on Information and knowledge management

Full text available: pdf(996.66 KB) Additional Information: full citation, references, citings, index terms

109 Human-computer interface development: concepts and systems for its management

H. Rex Hartson, Deborah Hix

March 1989 ACM Computing Surveys (CSUR), Volume 21 Issue 1

Full text available: pdf(7.97 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

Human-computer interface management, from a computer science viewpoint, focuses on the process of developing quality human-computer interfaces, including their representation, design, implementation, execution, evaluation, and maintenance. This survey presents important concepts of interface management: dialogue independence, structural modeling, representation, interactive tools, rapid prototyping, development methodologies, and control structures. Dialogue independence is th ...

110 Searching in high-dimensional spaces: Index structures for improving the

performance of multimedia databases

Christian Böhm, Stefan Berchtold, Daniel A. Keim

September 2001 ACM Computing Surveys (CSUR), Volume 33 Issue 3

Full text available: pdf(1.39 MB)

Additional Information: full citation, abstract, references, citings, index terms

During the last decade, multimedia databases have become increasingly important in many application areas such as medicine, CAD, geography, and molecular biology. An important research issue in the field of multimedia databases is the content-based retrieval of similar

multimedia objects such as images, text, and videos. However, in contrast to searching data in a relational database, a content-based retrieval requires the search of similar objects as a basic functionality of the database system ...

Keywords: Index structures, indexing high-dimensional data, multimedia databases, similarity search

111 An application of plausible reasoning to information retrieval

Farhad Oroumchian, Robert N. Oddy

August 1996 Proceedings of the 19th annual international ACM SIGIR conference on Research and development in information retrieval

Full text available: pdf(808.70 KB) Additional Information: full citation, references, index terms

112 The FINITE STRING <u>newsletter: Abstracts of current literature</u>

American Journal of Computational Linguistics Staff July 1981 Computational Linguistics, Volume 7 Issue 3

Full text available: pdf(2.42 MB) Publisher Site

Additional Information: full citation

113 Enhancing data warehouse performance through query caching

Aditya N. Saharia, Yair M. Babad

June 2000 ACM SIGMIS Database, Volume 31 Issue 3

Full text available: pdf(1.96 MB) Additional Information: full citation, abstract, index terms

The main function of a data warehouse is the separation of the decision layer from the operation layer so that users can invoke analysis, planning, and decision support applications without having to worry about constantly evolving operational databases. Such applications allow ad hoc queries for which no predefined reports exist. It is possible that an ad hoc query is submitted by different users or even by the same user at different times, requiring its repeated evaluations even though the con ...

Keywords: adaptive query cache, data warehouse and repository, database management, decision support, design, information systems applications, intelligent databases, management, performance, query minimization, query processing, query subsumption

114 Client-server computing in mobile environments

Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid June 1999 ACM Computing Surveys (CSUR), Volume 31 Issue 2

Full text available: pdf(233.31 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile compuing, mobile data, mobility awareness, survey, system application

115 The <bigwig> project

Claus Brabrand, Anders Møller, Michael I. Schwartzbach May 2002 ACM Transactions on Internet Technology (TOIT), Volume 2 Issue 2

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(586.33 KB)

We present the results of the <bigwig> project, which aims to design and implement a high-level domain-specific language for programming interactive Web services.

A fundamental aspect of the development of the World Wide Web during the last decade is the gradual change from static to dynamic generation of Web pages. Generating Web pages dynamically in dialog with the client has the advantage of providing up-to-date and tailor-made information. The development of systems ...

Keywords: Interactive Web services, program analysis

116 E-commerce: A system for principled matchmaking in an electronic marketplace Tommaso Di Noia, Eugenio Di Sciascio, Francesco M. Donini, Marina Mongiello May 2003 Proceedings of the twelfth international conference on World Wide Web

Full text available: pdf(143.82 KB) Additional Information: full citation, abstract, references, index terms

More and more resources are becoming available on the Web, and there is a growing need for infrastructures that, based on advertised descriptions, are able to semantically match demands with supplies. We formalize general properties a matchmaker should have, then we present a matchmaking facilitator, compliant with desired properties. The system embeds a NeoClassic reasoner, whose structural subsumption algorithm has been modified to allow match categorization into potential and partial, and ranki ...

Keywords: description logics, e-commerce, knowledge representation, matchmaking

117 A multi-paradigm querying approach for a generic multimedia database management system

Ji-Rong Wen, Qing Li, Wei-Ying Ma, Hong-Jiang Zhang March 2003 ACM SIGMOD Record, Volume 32 Issue 1

Full text available: pdf(524.08 KB) Additional Information: full citation, abstract, references

To truly meet the requirements of multimedia database (MMDB) management, an integrated framework for modeling, managing and retrieving various kinds of media data in a uniform way is necessary. MediaLand is an experimental MMDB platform being developed at Microsoft Research Asia for users with different levels of experiences and expertise to manage and search multimedia repositories easily, efficiently, and cooperatively. Key features of MediaLand include a uniform data model for describi ...

Keywords: media independence, multi-paradigm querying, multimedia database management, uniform data modeling

118 Pictorial interfaces: Image query by semantical color content

J. M. Corridoni, A. Del Bimbo, S. De Magistris

May 1996 Proceedings of the workshop on Advanced visual interfaces

Full text available: pdf(2.25 MB) Additional Information: full citation, abstract, references

The availability of large image databases is emphasizing the relevance of filters, which permit to focus the interest on a small subset of data. Taking advantage of the pictorial features of images, visual specification of such filters provides a powerful and natural way to express content-oriented queries. Albeit direct, the by example paradigm, does not allow to express high-level assertions on the pictorial content of images and specifically, paintings. To support the visuality, without losin ...

119 The Integrated <u>Dictionary/Directory System</u>

Frank W. Allen, Mary E. S. Loomis, Michael V. Mannino June 1982 ACM Computing Surveys (CSUR), Volume 14 Issue 2

Additional Information: full citation, references, citings, index terms Full text available: pdf(2.71 MB)

120 Knowledge-based search tactics for an intelligent intermediary system Philip J. Smith, Steven J. Shute, Beb Galdes, Mark H. Chignell

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Research on the nature of knowledge-based systems for bibliographic information retrieval is summarized. Knowledge-based search tactics are then considered in terms of their role in the functioning of a semantically based search system for bibliographic information retrieval, EP-X. This system uses such tactics to actively assist users in defining or refining their topics of interest. It does so by applying these tactics to a knowledge base describing topics in a particular domain and to a ...

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